July 27, 2013

Mr. Mark E. Detterman, PG, CEG
Environmental Protection
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Fuel Leak Case No. R0000320, Former Paco Pumps, Inc., 9201 San Leandro Street, Oakland, CA

Dear Mr. Detterman:

Please find enclosed the *Remedial Investigation Activities and Groundwater Monitoring Report* (RI Report) for the Former Paco Pumps facility located at 9201 San Leandro in Oakland, California (the Site). The investigation activities performed were completed to fill data gaps in the site characterization, support the development of a comprehensive conceptual site model and human health risk assessment, and assess the appropriateness of requesting Site closure under the State Water Resource Control Board's (CRWQCB) *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP).

Results from this investigation and groundwater monitoring event indicate that soil, groundwater, and soil vapor affected by petroleum hydrocarbons and related compounds remain on Site at concentrations that pose a very low threat to human health and the environment. As presented on the attached LTCP Checklist and summarized below, conditions at the Site meets the General Criteria and Media-specific Criteria as outlined in the LTCP.

General Criteria

a. The unauthorized release is located within the service area of a public water system
Yes. The Site is located within the service area of the East Bay Municipal Utility District.

b. The unauthorized release consists only of petroleum
Yes

c. The unauthorized ("primary") release from the UST system has been stopped
Yes. The two underground storage tanks responsible for the petroleum impacts to the Site were removed in 1954 and 1992.

d. Free product has been removed to the maximum extent practicable
Yes, no free product has been encountered

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed
Yes. Per the LTCP, not all of the supporting data and analysis used to develop the Conceptual Site Model are necessarily presented in the RI Report; however, they may be found in historical reports submitted to ACEH and referenced in Section 5 of the RI Report.

f. Secondary source has been removed to the extent practicable
Yes. A high-vacuum dual phase extraction test was conducted in 2010. Approximately 1,600 pounds of hydrocarbons were removed from the subsurface.

g. Soil or groundwater has been tested for methyl tert-butyl ether (MTBE) and results reported in accordance with Health and Safety Code section 25296.15
Yes. Historically, MTBE has been detected above 5 micrograms per liter twice.

h. Nuisance as defined by Water Code section 13050 does not exist at the site
Yes, a nuisance does not exist at the Site.

Groundwater Criteria

As presented in the RI Report, the contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets LTCP Criterion 2 for Groundwater. An evaluation of groundwater impacts at the Site is presented in Section 7.1.3 of the RI Report.

Petroleum Vapor Intrusion to Indoor Air Criteria

The site is considered low-threat for the vapor-intrusion-to-air pathway and meets LTCP Criterion B for Petroleum Vapor Intrusion to Indoor Air Criteria. Section 6 of the RI Report presents a site-specific risk assessment for the vapor intrusion pathway and demonstrates that human health is protected.

Direct Contact and Outdoor Air Exposure

The site is considered low-threat for direct contact and outdoor air exposure and meets LTCP Criterion 3a for Direct Contact and Outdoor Air Exposure. An evaluation of soil data is presented in Section 7.1.1 of the RI Report.

If you have any questions during your review of the RI Report, please feel free to contact Paul Parmentier at 562.597.1055 or pparmentier@thesourcegroup.net.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate

and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Dave Murray, as designated agent for
PCC Flow Technologies, Inc.

Cc: Mr. Peter L. Serrurier, Stoel Rives LLP
Mr. Mark Zeppetello, Barg Coffin Lewis & Trapp, LLP
Mr. Paul Parmentier, The Source Group

Attachment:

Low-Threat Underground Storage Tank Case Closure Policy Checklist

Site Name: Paco Pumps Inc.
Site Address: 9201 San Leandro Street, Oakland, CA

Site meets the criteria of the Low-Threat Underground Storage Tank (UST) Case Closure Policy as described below.[1]

General Criteria General criteria that must be satisfied by all candidate sites:	
Is the unauthorized release located within the service area of a public water system?	☒ Yes ☐ No
Does the unauthorized release consist only of petroleum?	☒ Yes ☐ No
Has the unauthorized ("primary") release from the UST system been stopped?	☒ Yes ☐ No
Has free product been removed to the maximum extent practicable?	☒ Yes ☐ No ☐ NA
Has a conceptual site model that assesses the nature, extent, and mobility of the release been developed?	☒ Yes ☐ No
Has secondary source been removed to the extent practicable?	☒ Yes ☐ No
Has soil or groundwater been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15?	☒ Yes ☐ No
Does nuisance as defined by Water Code section 13050 exist at the site?	☐ Yes ☒ No
Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?	☐ Yes ☒ No
Media-Specific Criteria Candidate sites must satisfy all three of these media-specific criteria: **1. Groundwater:** To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites:	
Is the contaminant plume that exceeds water quality objectives stable or decreasing in areal extent?	☒ Yes ☐ No ☐ NA
Does the contaminant plume that exceeds water quality objectives meet all of the additional characteristics of one of the five classes of sites? If YES, check applicable class: ☐ **1** ☒ **2** ☐ **3** ☐ **4** ☐ **5**	☒ Yes ☐ No ☐ NA

[1] Refer to the Low-Threat Underground Storage Tank Case Closure Policy for closure criteria for low-threat petroleum UST sites.

Site Name: Paco Pumps Inc.
Site Address: 9201 San Leandro Street, Oakland, CA

For sites with releases that have not affected groundwater, do mobile constituents (leachate, vapors, or light non-aqueous phase liquids) contain sufficient mobile constituents to cause groundwater to exceed the groundwater criteria?	☐ Yes ☐ No ☒ NA
2. Petroleum Vapor Intrusion to Indoor Air: The site is considered low-threat for vapor intrusion to indoor air if site-specific conditions satisfy all of the characteristics of one of the three classes of sites (a through c) or if the exception for active commercial fueling facilities applies. **Is the site an active commercial petroleum fueling facility?** Exception: Satisfaction of the media-specific criteria for petroleum vapor intrusion to indoor air is not required at active commercial petroleum fueling facilities, except in cases where release characteristics can be reasonably believed to pose an unacceptable health risk. **a. Do site-specific conditions at the release site satisfy all of the applicable characteristics and criteria of scenarios 1 through 3 or all of the applicable characteristics and criteria of scenario 4?** If YES, check applicable scenarios: ☐ **1** ☐ **2** ☐ **3** ☐ **4** **b. Has a site-specific risk assessment for the vapor intrusion pathway been conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency?** **c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health?**	☐ Yes ☒ No ☐Yes ☒ No ☐ NA ☒ Yes ☐ No ☐ NA ☐ Yes ☐ No ☒ NA
3. Direct Contact and Outdoor Air Exposure: The site is considered low-threat for direct contact and outdoor air exposure if site-specific conditions satisfy one of the three classes of sites (a through c). **a. Are maximum concentrations of petroleum constituents in soil less than or equal to those listed in Table 1 for the specified depth below ground surface (bgs)?** **b. Are maximum concentrations of petroleum constituents in soil less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health?** **c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health?**	☒ Yes ☐ No ☐ NA ☐ Yes ☐ No ☒ NA ☐ Yes ☐ No ☒ NA

REMEDIAL INVESTIGATION ACTIVITIES AND GROUNDWATER MONITORING REPORT

Former PACO Pumps Site
9201 San Leandro Street, Oakland, California

04-PFT-004

Prepared For:

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1.0 INTRODUCTION

The Source Group, Inc. (SGI), on behalf of PCC Flow Technologies, LLC, is submitting this *Remedial Investigation Activities and Groundwater Monitoring Report* (Report) for the former PACO Pumps facility located at 9201 San Leandro Street in Oakland, California (Site) (Figures 1 and 2). The investigation activities were initially presented in SGI's *Sub-Slab Vapor Survey and Remedial Investigation Work Plan* (RI Work Plan; SGI, 2012a), dated January 5, 2012. As discussed in Section 2.2, modifications to the RI Work Plan were presented in a letter to Alameda County Environmental Health (ACEH) dated June 20, 2012 (SGI, 2012b). Prior to implementation of the RI Work Plan, additional modifications were made to the investigation plan. These changes were made based on phone and email communications with ACEH.

SGI performed the investigation and monitoring and sampling activities presented in this Report in order to: 1) further characterize shallow groundwater conditions at the downgradient boundary of the Site; 2) characterize soil and soil vapor conditions in the vicinity of the former underground storage tank (UST) near Building 1 and suspected UST in Building 1; and 3) assess the Site-wide groundwater conditions beneath the Site. The activities performed were completed to fill data gaps in the site characterization, support the development of a comprehensive conceptual site model and human health risk assessment, and assess the appropriateness of requesting Site closure under the State Water Resource Control Board's (CRWQCB) *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP [CRWQCB, 2012]).

All of the data collected during the above referenced characterization and groundwater monitoring activities are presented in subsequent sections of this report.

1.1 Report Organization

The remainder of this Report is organized into the following sections:

Section 2.0: Site Background

This section presents the background and history of the Site.

Section 3.0: Remedial Investigation Activities

This section presents the methodology of the soil, groundwater, soil vapor sampling performed at the Site.

Section 4.0: Investigation and Sampling Results

This section presents the investigation and sampling activities results and provides discussion of the results.

Section 5.0: Conceptual Site Model

This section presents a comprehensive conceptual site model.

Section 6.0: Human Health Risk Evaluation

This section presents the results of modeling to estimate potential indoor air concentrations and associated human health risks from benzene and ethylbenzene in soil vapor.

Section 7.0: Conclusions and Recommendations

This section draws conclusions and provides a summary of recommendations based on the results of the investigation and sampling event.

Section 8.0: References

This section presents a summary of referenced documents used in preparation of this report.

2.0 SITE BACKGROUND

2.1 Site Location and History

The former PACO Pumps facility is located at 9201 San Leandro Street in Oakland, California (the Site, Figures 1 and 2). The Site is an approximately 4.6-acre parcel that is generally bounded by: an access road and heavy industrial/manufacturing business to the north; San Leandro Street, Union Pacific Railroad tracks, and elevated Bay Area Rapid Transit (BART) tracks to the east; Union Pacific Railroad tracks and easements for petroleum pipelines to the west; and industrial/warehousing businesses to the south. The surrounding area is a mix of industrial and heavy industrial (manufacturing) use. Currently, the entire Site is covered with either asphalt, concrete, or buildings constructed on concrete slabs. Two large warehouse buildings occupy the western and eastern areas of the Site. The nearest surface water body is San Leandro Creek, which is located approximately 5,000 feet southwest of the Site. No drinking water wells have been identified within ¼-mile of the Site (SGI, 2012a).

The Site was historically used as a manufacturing facility since 1945 for industrial pumps, tents, and as a foundry (Jonas & Associates, Inc. [Jonas], 1991) and has been used for warehousing and medicinal plant growing. Currently, the site is leased by a transportation, storage, and warehousing company. The Site is currently owned by 9201 San Leandro LLC. Four investigation areas (Areas 1, 2, 3, and 5) at the Site were addressed in early 2009, and closure of these areas has been requested from the ACEH. Remedial action activities completed since 2010 have focused on Area 4 only. Area 4 includes the former UST location southeast of Building 3 and the southern portion of Building 3. Semi-annual groundwater monitoring and sampling addresses groundwater conditions site-wide.

2.2 Previous Site Investigations and Remediation Activities

Subsurface soil and groundwater conditions have been investigated since the 1980's by various consultants including Jonas, ERAS Environmental Inc. (ERAS), Levine Fricke Recon Inc. (LFR), and most recently SGI. According to the ERAS *Subsurface Investigation and Groundwater Monitoring Report* (ERAS, 2008), the Jonas *Site Characterization Report* (Jonas, 1992) identified the location of a former 550-gallon underground storage tank (UST) located on the southeast side of Building 3. According to LFR, the former UST was used for gasoline storage. The UST was reportedly removed prior to a 1992 investigation of the assumed former tank pit area, where gasoline-impacted soil was discovered. This former UST location was over excavated in the 1992 investigation and soil was removed from the Site. These activities removed major sources of subsurface contamination, but impacted soil remained near the foundation of the building to the west of the former UST location. Several investigations were completed in the area, including drilling of soil borings inside the building located west of the former UST.

LFR conducted additional investigations and a remediation pilot test in 2009 and recommended site remediation by air sparging, soil vapor extraction, and ozone injection. LFR completed five soil

borings using membrane interface probe (MIP) technology to evaluate the distribution of contaminants in this part of the Site. LFR also collected two shallow groundwater samples (17 to 20 feet below ground surface [feet bgs]) and two deep groundwater samples (27 to 30 feet bgs), installed two new groundwater monitoring wells, one shallow and one deep air sparge wells, and three soil vapor extraction (SVE) test wells. The results of the investigation, as summarized by LFR (LFR, 2009), indicated that the deeper groundwater did not contain detectable concentrations of petroleum contaminants, and this finding has been confirmed during subsequent groundwater monitoring events.

After review of the previous site investigation data and LFR vapor extraction test data, SGI made alternative recommendations for remediation with the following approach (SGI, 2009):

- Focused, high- vacuum extraction of vadose zone hydrocarbons in the edges of the former UST excavation, including beneath Building 3; and
- Extraction of hydrocarbons from the shallow groundwater zone, followed by natural attenuation.

In October 2009, SGI submitted a *Remediation Work Plan* (SGI, 2009) that proposed episodes of high-vacuum dual-phase extraction (HVDPE) rather than construction and operation of a fixed remediation system. In April 2010, a 24-hour remedial action pilot test was conducted, and the results indicated that a longer-term remedial action was warranted. In June 2010, after installation of 12 extraction wells and an additional groundwater monitoring well (MW-8), SGI conducted a 10-day dual-phase extraction episode that resulted in the removal of significant hydrocarbon mass and the collection of reliable site contaminant distribution data.

Based on the limited air flow and groundwater extraction rates, low hydrocarbon concentrations present in soil, and a laterally and vertically delineated, limited benzene plume, any effort focused on in-situ remediation of hydrocarbons would be both lengthy and costly, and not substantially more effective than the apparent on-going natural attenuation of hydrocarbons. The *Post Remediation Sampling and First Semi-Annual Monitoring Report*, dated October 8, 2010, described the results of the investigation/remediation at Area 4, post-remediation sampling, and first semi-annual groundwater monitoring. The report also included a human health risk evaluation of soil vapor intrusion into Building 3 indoor air.

On January 5, 2012, at the request of ACEH, SGI submitted the RI Work Plan (SGI, 2012a) for sub-slab soil gas sampling to confirm the previous soil gas interpretations. The RI Work Plan included a preferential pathway study. Following ACEH comments, RI Work Plan modifications were submitted on June 20, 2012 (SGI, 2012b). ACEH's comments indicated that additional downgradient wells would be appropriate, and suggested that SGI conduct the investigation based on guidance presented in the CRWQCB's LTCP (CRWQCB, 2012). Additional modifications were made to the investigation plan and were discussed with ACEH via email prior to implementation.

3.0 REMEDIAL INVESTIGATION ACTIVITIES

The remedial investigations at the Site focused on shallow groundwater downgradient of the source area, and on soil vapor beneath Buildings 1 and 3 and in the vicinity of the former gasoline UST adjacent to Building 3. Soil samples were collected from all borings. The investigation placed an emphasis on collecting samples in accordance with the LTCP.

3.1 Pre-Field Activities

Prior to investigative activities at the Site, applications to advance borings and install groundwater monitoring wells were prepared and submitted along with appropriate fees to ACEH. A copy of the boring permit is included in Appendix A.

A site visit was performed to mark the locations of the proposed borings at the Site. Underground Services Alert (USA) was notified of the drilling activities as required. A private geophysical and utility survey was also conducted to identify underground structures within the footprints of the proposed investigative activities. Results of the private utility survey and utility locating by USA were reviewed and the final locations of the wells and vapor points were selected.

3.2 Shallow Groundwater Monitoring Well Installation

Three shallow groundwater monitoring wells (MW-9, MW-10, and MW-11) were constructed west of Building 3, between the building and the property boundary fence. The well locations are presented on Figure 2.

Prior to well installation, continuous soil borings was advanced at each well location using direct-push technology. The soil borings were advanced to a total depth of 20 feet bgs. Soil cores from the boreholes were visually evaluated, and the description of soil cores included the following information with depth:

- Percentage of sample recovery;
- Depth to first encountered groundwater;
- Grain size classification (USCS; percentages of gravel, sand, silt, and clay);
- Color (Munsell color chart);
- Density;
- Odor; and
- Degree of moisture.

Soil samples were screened in the field for volatile organic compounds (VOCs) using an organic vapor monitor (OVM) equipped with a photo-ionization detector (PID). Approximately 20 grams of soil from various sections of soil core were placed in a self-sealing plastic bag to allow VOCs that may be present in the pore spaces to volatilize. The headspace in the plastic bag then was monitored for VOCs with the OVM. Based on field observations, select soil samples were collected

from the borings and were analyzed for total petroleum hydrocarbons-diesel range organics (TPH-DRO, [C10-C28]) and total petroleum hydrocarbons-motor oil range organics (TPH-MRO, [C24-C36]) by EPA Method 8015M, and for total petroleum hydrocarbons-gasoline range organics (TPH-GRO, [C5-C12]), BTEX (benzene, toluene, ethylbenzene, and xylenes), and fuel oxygenates by EPA Method 8260B. Soil samples collected for laboratory analysis by EPA Method 8260B were field preserved using Terra Core samplers, an approved sampling protocol for EPA Method 5035. Soil samples were labeled and placed in an ice-filled cooler, and a chain-of-custody record was initiated in the field to accompany the soil samples to the laboratory.

Following completion of the soil boring, the depths and lengths of the well screens were selected based on lithology of the soil core. Well MW-9 screen was selected to be constructed from 12 to 17 feet bgs, and wells MW-10 and MW-11 screens were selected to be constructed from 10 to 20 feet bgs. Wells MW-10 and MW-11 were constructed with longer screens due to lack of coarse-grained soil observed in the soil core. The bottom three feet of the soil boring MW-9 was then backfilled with bentonite. Prior to well construction, the soil boring was over-drilled with an 8-inch-diameter hollow stem auger.

Wells were constructed using 2-inch diameter schedule 40 polyvinyl chloride (PVC). The well screens were constructed using 2-inch diameter schedule 40 PVC with 0.020-inch slots. #2/12 Monterey sand was placed from total depth of well screen to two feet above the well screen. Two feet of bentonite chips were placed above the sand pack followed by neat cement grout to approximately 1-foot bgs. The wells were completed at grade with 12-inch, flush-mounted well boxes sealed with concrete. The boring logs and well construction details for well MW-9, MW-10, and MW-11 are included in Appendix B.

Following the required curing period, the new wells were developed by surging, bailing, and pumping, to produce representative water quality samples. Development continued until the water was clear and generally free of sediment and water quality parameters (pH, temperature, conductivity, and turbidity) stabilized to approximately 10 percent between successive measurements. Well development field data were documented on groundwater monitoring well development forms (included in Appendix C). Following development, the wells were surveyed to a common datum, referenced to mean sea level (msl) by a licensed surveyor. The surveyor's report is included in Appendix D.

3.3 Soil Vapor Probe Installation

Eight soil vapor probes (SV-1 through SV-8) were installed at the Site. Soil vapor probes were constructed in accordance with California Environmental Protection Agency's (CalEPA) Department of Toxic Substance Control's (DTSC) *Advisory – Active Soil Gas Investigations* (Advisory; DTSC, 2012). Three soil vapor probes each were installed in Buildings 1 and 3, and two soil vapor probes were installed outside Building 3, in the vicinity of the former UST excavation are. The vapor probe locations are presented on Figure 2. At each location, the concrete ground surface was cored to provide access to the soil. Prior to construction of the soil vapor probes, soil borings were advanced to approximately 10 feet bgs at each location. The first five feet of each

borehole was cleared/drilled using a hand auger and the bottom five feet was drilled using direct-push technology. Soil samples from the boreholes were visually evaluated, and the description of soil samples included the following information with depth:

- Percentage of sample recovery;
- Depth to first encountered groundwater;
- Grain size classification (USCS; percentages of gravel, sand, silt, and clay);
- Color (Munsell color chart);
- Density;
- Odor; and
- Degree of moisture.

As described in Section 3.2 above, soil samples were screened in the field for VOCs using a PID. Based on field observations, select soil samples were collected from the borings and were analyzed for TPH-DRO and TPH-MRO by EPA Method 8015M, and TPH-GRO, BTEX, and fuel oxygenates by EPA Method 8260B. Soil samples collected for laboratory analysis by EPA Method 8260B were field preserved using Terra Core samplers. Soil samples were labeled and placed in an ice-filled cooler, and a chain-of-custody record was initiated in the field to accompany the soil samples to the laboratory.

Following completion of the soil borings and selecting the depth of the soil vapor probe intake, the bottom of each soil boring was backfilled with bentonite to seal the borehole to a depth 6-inches below the soil vapor probe tip. Vapor probe construction consisted of placing a 1-inch stainless steel vapor probe tip midway between the top and bottom of one foot of #2/12 Monterey sand. The vapor probe tip was attached to 0.25-inch Teflon® tubing. Approximately 1-foot of dry granular bentonite was placed on top of the sand pack to preclude the infiltration of neat grout into the sand pack. The borehole was grouted to approximately 6-inches bgs with neat cement. The soil vapor probe was completed at grade with a 6- or 8-inch, flush-mounted, traffic-rated well box sealed with concrete. All eight soil vapor probes were constructed in this manner.

Upon completion, the probes were properly secured, capped, and completed to prevent infiltration of water or ambient air into the subsurface and to prevent accidental damage. The soil vapor probe locations were surveyed to a common datum by a licensed surveyor. The surveyor's report is included in Appendix D.

3.3.1 Soil Vapor Sampling

Soil vapor sampling was conducted on March 26, 2013. TEG of Rancho Cordova, California conducted the soil vapor sampling and sample analysis. No precipitation was reported in area of the Site for the seven days prior to soil vapor sampling.

Prior to sampling, soil vapor sampling probes were purged to ensure that stagnant or ambient air was removed from the sampling system and to ensure that samples collected were representative

of subsurface conditions. TEG purged three tubing volumes, approximately (120 milliliters), prior to collecting each soil vapor sample. Per Advisory guidance, flow rates between 100 to 200 milliliters per minute (mL/min) and vacuums less than 100 inches of water were maintained during purging and sampling.

During sampling, a leak test was conducted in accordance with approved guidance to confirm the sampling assembly was properly constructed and free of leaks, and to assess potential sample dilution due to short circuiting of ambient air through the borehole annulus. The leak test consisted of covering the soil vapor probe with a shroud and injecting the leak test compound within the shroud. The leak test compound (1,1-difluoroethane) was included in the analyte list.

Samples were collected in gas-tight glass syringes with Teflon® seals and immediately transferred to the on-site mobile laboratory for analysis. The sample containers were labeled with sample-point identification, date, and time of collection and logged onto a chain-of-custody form and assigned a laboratory identification number. One duplicate soil gas sample was collected from location SV-2 to provide a measure of Quality Assurance/Quality Control (QA/QC). In addition, method blanks were run during the course of the sampling event to assure there was no carry-over on the analytical instrument.

The soil vapor samples were analyzed on-site by TEG's California state-certified mobile laboratory for the following compounds:

- TPH-GRO, BTEX compounds, naphthalene, methyl tert-butyl ether (MTBE), and 1,1-difluoroethane (1,1-DFA; the leak test compound) by EPA Method 8260B; and
- Methane, oxygen, carbon dioxide, and nitrogen by gas chromatograph/thermal conductivity detector.

3.4 Groundwater Monitoring and Sampling Event

Blaine Tech Services, Inc. of San Jose, California was contracted to conduct the Quarter 1, 2013 semi-annual groundwater monitoring and sampling event on April 5, 2013. This section details the monitoring and sampling activities completed.

3.4.1 Groundwater Monitoring

Groundwater levels were measured in 25 groundwater monitoring wells. Two wells were not accessible during the sampling event: MW-8 was located under a large puddle (due to a prior rain event), and E-10 could not be located and appears to have been paved over. Groundwater levels in all wells were gauged from the top of the well casing (TOC) using an electronic water level indicator graduated to 0.01-foot. The surveyed top of casing elevations are referenced to msl. Groundwater elevations are presented in Table 1 and represented as a potentiometric surface on Figure 3.

3.4.2 Groundwater Sampling

Groundwater samples were collected from 17 of the 25 wells that were used for monitoring. Groundwater wells were purged using standard three well casing purging methods with submersible pumps or disposable bailers. Groundwater samples were collected with disposable bailers. Water quality parameters were measured and recorded during the groundwater purging to ensure the groundwater samples were representative of aquifer conditions. Samples were transferred directly into laboratory-supplied containers and placed on ice for transport to Accutest, Inc. of San Jose, California under chain-of-custody control. The monitoring well field sampling forms are included in Appendix E. All groundwater samples collected during the sampling event were analyzed for TPH as diesel (TPHd) and TPH as motor oil (TPHmo) by USEPA Method 8015M, and TPH-GRO (C6-C10) and VOCs by USEPA Method 8260B. Results of the groundwater monitoring and sampling event are presented below.

3.5 Waste Management

Soil cuttings, well purge water, well development water, and decontamination water generated during drilling and sampling were stored on Site in properly labeled 55-gallon steel drums pending waste characterization. All waste will be disposed in accordance with applicable laws and regulations.

4.0 INVESTIGATION AND SAMPLING RESULTS

4.1 Site Geology and Hydrogeology

As discussed above, soil samples were collected continuously to the maximum depth of each boring during construction of the groundwater monitoring wells and soil vapor probes. Boring logs with well and vapor probe construction details are presented in Appendix B.

Ground surface cover consists of soil, asphalt, or concrete depending on the boring location. Asphalt and concrete ranged in thickness from 4 to 12 inches. Subsurface soils consist primarily of coarse-grained soil to a depth of 2 to 4 feet bgs, and fine-grained soil (clay) to a depth ranging from approximately nine to 11 feet bgs. Lean clay with an increase percentage of coarse grains was observed in groundwater monitoring well boreholes at depths ranging from 11 to 16 feet bgs.

Groundwater was observed at approximately 12.5 feet bgs in the three groundwater monitoring well boreholes during drilling. Following monitoring well development, groundwater was measured at 8.20 feet bgs in MW-9, 7.34 feet bgs in MW-10, and 7.53 feet bgs in MW-11. This variation between initial depth to groundwater observed during drilling and final depth to groundwater measured in completed wells was observed during drilling activities in the past. Based on lithology observed during drilling and previous investigations, it appears that the clay present to a depth of approximately nine to 11 feet bgs acts as a confining or semi-confining layer. Depth to groundwater and calculated groundwater elevations are presented in Table 1.

4.2 Soil Sample Results

A total of 33 soil samples were collected from the 11 soil borings drilled on Site (three samples from each boring). In accordance with the LTCP, two soil samples were collected within the first five feet of soil below the ground surface cover from each soil boring, and at approximately 9 to 12 feet bgs to evaluate for potential bioattenuation zone conditions at the site and to evaluate soil results against direct contact/outdoor air exposure scenarios presented in the LTCP (CRWQCB, 2012). Soil sample results are presented in Table 2 and on Figure 4, and summarized below:

- TPH-GRO concentrations were detected in 12 soil samples at concentrations ranging from 0.64 milligrams per kilogram (mg/kg) in sample SV-5-3 at 3 feet bgs to 920 mg/kg in sample SV-6-9 at 9 feet bgs. Only two locations contained detectable TPH-GOR concentrations in the shallow samples, with TPH-GRO detected in shallow (2.5 and 5 feet bgs) samples at MW-10 and MW-11, coincident with higher TPH-DRO and TPH-MRO. Typically, the highest TPH-GRO concentrations in soil were detected only in deeper samples, with highest concentrations reported in samples collected from borings SV-2, SV-3, SV-5, and SV-6 (see Figure 4).
- TPH-DRO concentrations were detected in 32 soil samples at concentrations ranging from 1.1 mg/kg in sample SV-7-5.5 at 5.5 feet bgs to 4,600 mg/kg in sample MW-10-2.5 at 2.5 feet bgs. The highest TPH-DRO concentrations in soil were detected in shallow (2.5

and 5 feet bgs) samples collected from borings MW-10 and MW-11, and shallow (5 feet bgs) and deep (9 feet bgs) samples collected from boring SV-1 (see Figure 4).

- TPH-MRO concentrations were detected in 11 soil samples at concentrations ranging from 56 mg/kg in sample SV-4-2.5 at 2.5 feet bgs to 8,800 mg/kg in sample SV-10-2.5 at 2.5 feet bgs. Higher TPH-MRO concentrations were coincident with elevated TPH-DRO concentrations.
- Benzene concentrations were detected in only seven soil samples, at concentrations ranging from 0.012 mg/kg in sample SV-3-3 at 3 feet bgs to 6.6 mg/kg in sample SV-5-9 at 9 feet bgs. Higher benzene concentrations were detected in samples collected from borings SV-3, SV-4, SV-5, and SV-6 (Figure 4). SV-4 and SV-5 are located in the vicinity of the former gasoline UST adjacent to Building 3, and SV-6 is located in the vicinity of a suspected UST in Building 1. All benzene concentrations detected in soil samples are below the LTCP Direct Contact and Outdoor Air Exposure levels for commercial/industrial and utility worker use scenario.
- Ethylbenzene concentrations were detected in only seven soil samples, at concentrations ranging from 0.061 mg/kg in sample SV-4-5.5 at 5.5 feet bgs to 20 mg/kg in sample SV-6-9 at 9 feet bgs. Similar to benzene, higher ethylbenzene concentrations were detected in samples collected from borings SV-3, SV-4, SV-5, and SV-6 (Figure 4). SV-4 and SV-5 are located in the vicinity of the former gasoline UST adjacent to Building 3, and SV-6 is located in the vicinity of a suspected UST in Building 1. All ethylbenzene concentrations detected in soil samples are below the LTCP Direct Contact and Outdoor Air Exposure levels for commercial/industrial and utility worker use scenario.
- Other petroleum hydrocarbon constituents/additives: toluene, xylenes, and tert-butyl alcohol (TBA) were also detected in soil samples. Elevated concentrations of these compounds were coincident with elevated benzene and ethylbenzene concentrations.

The shallow nature of the TPH impacts detected in soil samples from borings MW-9, MW-10 and MW-11 (along the downgradient boundary of the Site) appear to be indicative of a surface release rather than impacts from the former gasoline UST, which is located more than 100 feet to the east. Additionally, the absence of BTEX compounds indicate the impacts are not associated with the former gasoline UST. Similarly, soil samples from soil boring SV-1 (approximately 80 feet east of the former UST) show minor hydrocarbon impacts in the upper 5 feet with non-detect to trace BTEX compounds and higher TPH-DRO impact at 9 feet bgs.

Soil impacts in SV-4, SV-5 and SV-6 are primarily TPH-GRO and BTEX compounds. These borings are located in the vicinity of the former gasoline USTs. TPH-GRO, TPH-DRO, benzene, and ethylbenzene concentrations in soil are presented on Figure 4. A summary of soil analytical results are included in Table 2. Laboratory analytical reports for soil samples are presented in Appendix F.

4.3 Soil Vapor Sample Results

Soil vapor samples were collected from eight permanent soil vapor probes on March 26, 2013. As described in Section 3.3.1, TEG collected and analyzed the soil vapor samples under SGI's supervision. Samples were analyzed on Site in TEG's mobile laboratory. Samples were analyzed for TPH-GRO, BTEX, naphthalene, MTBE, methane, oxygen, carbon dioxide, nitrogen, and 1,1-DFA (the leak detection compound). Nine soil vapor samples were analyzed, including the duplicate sample from SV-2. Laboratory analytical results for soil vapor samples are summarized below:

- TPH-GRO was detected in seven samples at concentrations ranging from 57,000 micrograms per cubic meter (µg/m^3) in SV-8 to 20,000,000 µg/m^3 in SV-5. The highest concentrations of TPH-GRO in soil vapor were detected in samples from SV-3, SV-4 and SV-5, located in the vicinity of the former gasoline UST near Building 3.
- Benzene was detected in seven samples at concentrations ranging from 110 µg/m^3 in SV-8 to 560,000 µg/m^3 in SV-5. The highest concentrations of benzene in soil vapor were detected in samples from SV-3, SV-4, SV-5, and SV-6. SV-6 is located in the area of the suspected UST in Building 1.
- Toluene and methane were only detected in the sample collected from SV-5 at a concentrations of 4,500 µg/m^3 and 10,000 parts per million by volume (ppmV), respectively.
- Ethylbenzene and xylenes were also detected in samples collected from SV-4, SV-5, and SV-6.
- Oxygen was detected above 4% in all soil vapor samples except SV-1. Oxygen concentrations above 4% are an indicator of a potential bioattenuation zone, as defined in the LTCP. However, due to the elevated TPH in soil matrix (>100 mg/kg for TPH-GRO + TPH-DRO) in this shallow upper 5-foot zone (and elevated dissolved benzene in groundwater >1,000 micrograms per liter (µg/L) as detailed in Section 4.4.2 below), the effectiveness of a bioattenuation zone is unclear.
- Naphthalene, MTBE, and 1,1-DFA were not detected in any soil vapor sample.

Benzene, ethylbenzene, naphthalene, and TPH-GRO concentrations in soil gas are presented on Figure 5. Sample results are presented in Table 3. The laboratory analytical report for soil vapor samples is presented in Appendix G.

4.4 Groundwater Sampling Results

The Quarter 1, 2013 semi-annual groundwater monitoring and sampling event was conducted on April 5, 2013. Groundwater levels were measured in all accessible wells, and groundwater samples were collected from a subset of the wells.

4.4.1 Groundwater Elevations

A potentiometric surface map was constructed from the shallow groundwater elevation data and is presented as Figure 3. Groundwater elevation measurements are included in Table 1.

The depth-to-water measurements ranged from 6.96 feet below top of casing (btoc) in MW-4 to 9.20 feet btoc in E-9. Groundwater elevations ranged from 10.03 feet msl in MW-1 to 12.41 feet msl in MW-4. A review of elevation data and the potentiometric surface map indicates shallow zone groundwater flows in a westerly direction at a gradient of approximately 0.006 feet/foot in Areas 4 and 5. The westerly gradient is consistent with historical groundwater flow patterns.

4.4.2 Groundwater Analytical Results

Laboratory analytical results for MTBE, benzene, TPH-GRO, and TPHd are presented on Figure 6. Quarter 1, 2013 laboratory analytical results and historical laboratory analytical results are summarized in Table 4 and 5, respectively. The laboratory analytical reports for groundwater samples are presented in Appendix H. Laboratory analytical results for samples collected from groundwater monitoring wells are summarized below:

- TPH-GRO concentrations were detected in nine wells: MW-2, MW-3, MW-4, MW-6, E-3, E-6, E-7, E-8 and E-12. Concentrations in these wells were generally within historic ranges with concentrations ranging from 42 µg/L in MW-2 to 14,200 µg/L in MW-3. TPH-GRO concentration trends have been stable in all wells with the highest concentrations in wells downgradient of the former UST adjacent to Building 3. TPH-GRO was not detected in perimeter wells MW-1, MW-5, MW-9, MW-10, and MW-11, indicating that groundwater containing TPH-GRO is delineated within the Site.

- TPHd concentrations were detected in five wells MW-3, MW-6, E-7, E-8 and E-12. Concentrations were generally within historic ranges with concentrations ranging from 62.4 µg/L in E-12 to 2,210 µg/L in MW-3. TPHd concentration trends have been stable or decreasing. Historically, the highest concentrations have occurred in well MW-3, adjacent to the former UST at Building 3. TPHd was not detected in boundary wells MW-1, MW-5, MW-9, MW-10, and MW-11, indicating that TPHd-containing groundwater is delineated within the Site.

- TPHmo concentrations were detected in nine wells MW-1, MW-2, MW-5, MW-10, MW-11, E-2, E-3, E-6, and E-8. TPHmo concentrations ranging from 323 µg/L in MW-1 to 357,000 µg/L in E-3. Concentration trends were generally stable and within historic ranges, with the exception of wells MW-5, E-2, E-3, E-6, and E-8, which reported increasing concentrations. Well E-3 exhibited the largest concentration increase, at an order of magnitude greater than the historical maximum. TPHmo concentrations were detected in downgradient wells MW-1, MW-5, MW-10, and MW-11.

- Benzene concentrations were detected in eight wells MW-3, MW-4, MW-6, E-3, E-6, E-7, E-8, and E-12. Concentrations were generally within historic ranges with concentrations ranging from 1.0 µg/L in E-3 to 1,030 µg/L in MW-3. Benzene concentration trends have

been stable or decreasing in all wells with the exception of E-8, which showed a slightly increasing trend. Benzene was not detected in boundary wells MW-1, MW-5, MW-9, MW-10, and MW-11, indicating that benzene-containing groundwater is delineated within the Site.

- MTBE concentrations were detected in only seven wells MW-2, MW-7, MW-9, MW-10, E-3, E-6, and E-7. Concentrations were generally within historic ranges with concentrations ranging from 0.2 µg/L in MW-10 to 3.3 µg/L in E-7. Where detected, MTBE concentration trends have been stable or decreasing. MTBE was detected in boundary wells MW-9 and MW-10 at concentrations of 1.1 and 0.2 µg/L, three orders of magnitude below the LTCP criteria of 1,000 µg/L.
- Fuel constituents/additives toluene, ethylbenzene, xylenes, and 1,2-dichloroethane (1,2-DCA) were also detected in groundwater samples. Concentration trends of these constituents appear to be stable or decreasing in all wells with the exception of E-8, which shows a slightly increasing trend for toluene, ethylbenzene, and xylenes.
- Concentrations of contaminants in the deep monitoring well in the former UST area (AS1D) were not detected, confirming previous findings that contamination is vertically defined and limited to the shallow groundwater zone.

Although the downgradient wells contain low concentrations of TPHmo (<1mg/L) the results of the Quarter 1, 2013 semi-annual groundwater sampling event including the three new downgradient wells indicate that the TPH-GRO, TPHd, and BTEX groundwater plume is stable and contained on Site.

5.0 CONCEPTUAL SITE MODEL

A conceptual site model (CSM) that assesses the nature, extent, and mobility of the release has been developed and is presented below. Per the LTCP, not all of the supporting data and analysis used to develop the CSM are necessarily presented in this report; however, they may be found in historical reports submitted to ACEH and referenced below.

5.1 Exposure Setting and Land Use

The former PACO Pumps facility is an approximately 4.6-acre parcel located at 9201 San Leandro Street in Oakland, California. The Site was historically used as a manufacturing facility since 1945, and as a foundry (Jonas, 1991) and is now used for warehousing. Currently, the entire Site is covered with either asphalt, concrete, or buildings constructed on concrete slabs. Two large warehouse buildings occupy the western and eastern areas of the Site. Both buildings have large, roll-up doors. An office has been constructed inside the northern corner of Building 3. The Site is generally bounded by a mix of industrial and heavy industrial use (manufacturing) and transportation right-of-ways (i.e., BART, active railroad tracks, and city streets). A Site Location Map and a Site Plan are presented as Figures 1 and 2, respectively.

5.2 Source and Attributes of the Release

The potential source(s) of constituents released into the environment are interpreted to be leaks associated with the operation of a UST at the Site in Area 4, and a suspected UST in Area 5 (Figure 2). The UST in Area 4 is reported to have been removed in 1992. Following UST removal, soil was over-excavated and removed under and in the vicinity of the former UST, but residual hydrocarbons remained due to limited access in the area. The location of the suspected UST in Area 5 has never been confirmed, and is assumed to have been removed during building construction. Additionally, shallow soil is impacted with TPH-DRO and TPH-MRO under the southern portion of Building 3, and between the building and the property boundary fence.

The migration of petroleum hydrocarbons and related constituents at the Site is interpreted to occur as a result of groundwater flow. However, natural attenuation via adsorption, dispersion, and natural degradation, and Site lithology has limited the horizontal and vertical distribution of constituents. The primary source of the constituents, leaks associated with discharges from the USTs, have been terminated. Therefore, the only potential sources remaining are interpreted to be the affected soil in the vicinity of the USTs, and shallow soil in the southwestern portion of the Site.

5.3 Affected Media

Elevated concentrations of hydrocarbon constituents/additives in soil is present in the vicinity of the former gasoline USTs at Building 1 and 3, and shallow soil in the southwestern area of the Site. Laboratory analytical data for soil samples collected at the Site are presented in:

- Table 2 of this Report;

- Table 2 of the *Investigation/Remediation (Area 4), Post-Remediation Sampling and First Semi-Annual Monitoring Report* (SGI, 2010); and
- Table 1 of the *Investigation and Remediation Activities Report* (LFR, 2009).

Elevated concentrations of hydrocarbon constituents/additives in groundwater appear to be associated with a gravelly clay layer, observed in soil borings and by geophysical methods during the MIP investigation (LFR, 2009). All historical laboratory analytical data for groundwater samples collected at the Site are presented in Table 5 of this report.

Elevated concentrations of hydrocarbon constituents/additives in soil vapor are present in the vicinity of the former gasoline USTs at Buildings 1 and 3. Laboratory analytical data for soil vapor samples collected at the Site are presented in:

- Table 3 of this Report;
- Table 4 of the *Investigation/Remediation (Area 4), Post-Remediation Sampling and First Semi-Annual Monitoring Report* (SGI, 2010);
- Table 7 of the *Investigation and Remediation Activities Report* (LFR, 2009); and
- Table 4 of the *Subsurface Investigation and Groundwater Monitoring Report, Quarter 2, 2008* (ERAS, 2008).

5.4 Local Geologic and Hydrogeologic Setting

In general, the site lithology appears to consist of clay to a depths ranging from approximately nine to 11 feet bgs, where clay with an increased percentage of coarse grains contains the first encountered groundwater. More clay extends to approximately 23 feet bgs, where a deeper groundwater zone has been observed. During Quarter 1, 2013, shallow zone groundwater flowed in a westerly direction at a gradient of approximately 0.006 foot/foot in Areas 4 and 5 (Figure 3). The westerly gradient is consistent with historical groundwater flow patterns. Discussions of the geologic and hydrogeologic setting are presented in:

- Section 4.1 of this Report;
- Section 2.2 of the *Investigation and Remediation Activities Report* (LFR, 2009); and
- Section 1.2 of the *Subsurface Investigation and Groundwater Monitoring Report*, *Quarter 2, 2008* (ERAS, 2008).

Historical groundwater elevation data are presented in Table 1 of this Report. Geologic cross sections have been presented as Figures 3, 4A, and 4B in the *Remediation Workplan – Area 4* (SGI, 2009).

Well construction and soil boring logs showing geologic and hydrogeologic conditions beneath the Site are presented in:

- Appendix B of this Report;

- Appendix C of the *Investigation/Remediation (Area 4), Post-Remediation Sampling and First Semi-Annual Monitoring Report* (SGI, 2010);
- Appendix C of the *Investigation and Remediation Activities Report* (LFR, 2009);
- Appendix E of the *Subsurface Investigation and Groundwater Monitoring Report, Quarter 2, 2008* (ERAS, 2008);
- *Completion of Monitoring Well 9MW5* (Jonas, 1994); and
- Appendix D of the *First Quarterly Status Report* (Jonas, 1993).

5.5 Contaminant Transport and Fate

Chemical properties of the detected constituents and the physical characteristics of the Site were reviewed to identify factors that might allow the release and transport of a chemical from soil, soil vapor, or groundwater. Currently, the entire Site is covered with either asphalt, concrete, or buildings constructed on concrete slabs. Two large warehouse buildings occupy the western and eastern areas of the Site. The former UST in Area 4 is located outside Building 3 (western portion of Site), and the suspected UST in Area 5 is located beneath Building 1 (eastern portion of Site).

Future conditions of Site cover are unknown. Therefore, future receptors may be directly exposed to soil on Site. Release of chemicals can potentially occur through volatilization, wind and/or mechanical erosion (i.e., during construction), or migration of chemicals into the groundwater or surface water. These potential release mechanisms are discussed in more detail below.

Based on previous investigations, some of the Site-related constituents include VOCs. These chemicals typically have a low organic carbon partition coefficient (Koc), a low molecular weight, and a high Henry's Law constant, indicating that these chemicals may volatilize. Therefore, volatilization of VOCs is considered a potential transport mechanism.

Some of the chemicals detected at the Site adsorb readily to dust particles. Chemicals adsorbed to soil particles can be blown into air. This is referred to as fugitive dust. Therefore, exposure to constituents in soil via fugitive dust emissions is considered a potential transport mechanism.

The potential for chemicals to leach from soil or migrate laterally in soil vapor depends on the physical and chemical properties of the chemicals, the chemical concentration, soil type, and other site-specific conditions. For example, chemicals with high water solubilities tend to leach more readily than chemicals with lower solubilities. In addition, a chemical's Koc is important for assessing the degree of chemical sorption to soil particles; chemicals with a high sorption potential do not tend to leach as readily. Site-specific conditions are also important for assessing whether leaching may occur, such as soil type (leaching occurs more readily in sandy soils than in clayey or silty soils), amount of rainfall, gradient, etc. In addition, other competing migration pathways can affect the tendency of a chemical to leach. Site-related constituents (e.g., gasoline-range petroleum hydrocarbons) may migrate downward from shallow soils to deeper soils and/or

groundwater through leaching. Therefore, potential leaching to groundwater is considered a transport mechanism.

Contaminant migration along preferential pathways (e.g., utility corridors) was evaluated in Section 3.1 of the RI Work Plan (SGI, 2012a). Utility corridors identified in Area 4 of the Site are shown on Figure 3 in the RI Work Plan.

5.6 Confirmed and Potential Exposure Points and Receptors

Under current Site conditions, the direct contact with soil is prevented by the asphalt/concrete cover. Under future Site conditions, where the condition of the cover is unknown, receptors at the Site may be directly exposed to soil. Therefore, under future Site conditions, the exposure point for soil is defined as the area within the Site.

As recommended by the DTSC (2011a,b), for the volatilization pathway into indoor air, exposure to subsurface contamination is best characterized through the collection of soil vapor samples. Therefore, soil vapor data are used in the evaluation of potential indoor air impacts. Currently, two buildings exist onsite. Under future Site conditions, the exposure point for soil vapor is defined as the entire area within the Site (assuming a future building may be located anywhere on the Site).

Although the exposure point for groundwater is defined as the groundwater within the Site, no point of direct contact with groundwater was identified for the Site. As indicated in the RI Work Plan (SGI, 2012a) there are no known active domestic water supply wells pumping from shallow aquifers for beneficial use within an approximate 1,300-foot radius of the Site. The shallow water-bearing zone is generally not considered a drinking water source due to inadequate yields and other water quality issues (e.g., bacteria, total dissolved solids). Therefore, no point of direct contact with groundwater as a beneficial water resource was identified for the hypothetical receptors. Based on the historic depth to groundwater of approximately 10 feet bgs, a hypothetical outdoor construction worker receptor could potentially contact groundwater during deep excavation, this contact is expected to be very infrequent and involve only minor contact, if any, with contaminated groundwater. In general, any hypothetical construction worker receptor will be performing activities consistent with a Site health and safety plan (HASP). This HASP and best management practices (BMPs) would likely require engineering controls (e.g., dewatering) to preclude any direct contact with groundwater for workers at the Site.

Volatile compounds can be released from the subsurface into indoor and outdoor air resulting in an indirect exposure to constituents in soil, soil vapor, and groundwater. Soil, soil vapor, and groundwater samples have been collected from the same general areas of the Site. As recommended by USEPA (1996 and 2002), soil concentrations are used for evaluating soil vapor emissions from soil to outdoor air. As recommended by the DTSC (2011a,b), for the vapor intrusion pathway into indoor air, exposure to subsurface contamination is best characterized through the collection of soil vapor samples. Therefore, concentrations detected in soil were used in evaluation of potential outdoor air impacts, as presented in the LTCP. Detected concentrations

of soil vapor were used in the evaluation of potential indoor air impacts. This evaluation is presented in Section 6.0, Human Health Risk Evaluation.

In addition to exposure points, potential hypothetical receptors are necessary for an exposure pathway to be complete. Hypothetical human receptors were identified on the basis of proximity to the Site, proposed activities that could possibly result in direct or indirect contact with Site-related constituents, and Site use. The Site is located in an industrial area, which is expected to remain industrial in the future. The following hypothetical human receptors were identified:

- Hypothetical On-Site Outdoor Commercial/Industrial Worker Receptor (current and future exposure scenario);
- Hypothetical On-Site Indoor Commercial/Industrial Worker Receptor (current and future exposure scenario); and
- Hypothetical On-Site Construction Worker Receptor (future exposure scenario).

The nearest surface water body is San Leandro Creek, which is located approximately 5,000 feet southwest of the Site (Figure 1). San Leandro Creek is channeled through urban areas including engineered underground conveyances and drains stormwater into San Leandro Bay (approximately 1 mile west of the Site). Due to the distance from the Site to the point of potential interception, interaction between constituents in surface water runoff or groundwater and regional surface water features is not expected.

6.0 HUMAN HEALTH RISK EVALUATION

This human health risk evaluation (HHRE) was prepared to quantify potential exposures associated with the on-Site warehouses in Areas 4 and 5 (the former underground storage tank locations) in order to identify the need for, and the possible extent of, remediation or engineering solutions to adequately protect human health. Under current site conditions, direct contact with soil is prevented by the asphalt/concrete ground cover and groundwater is unlikely to be used as a drinking water source or for other beneficial uses (Section 5.6). Currently, no point of direct contact with groundwater was identified for the Site. Therefore, this human health risk evaluation focuses on evaluating indirect exposure to contaminants in the subsurface via indoor air exposures.

The chemicals of potential concern (COPCs) include VOCs, which can be released from the subsurface (i.e., volatilize) into ambient air resulting in an indirect exposure to contaminants in the subsurface. The methods used to conduct this risk evaluation are consistent with DTSC *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (DTSC, 2011a). The DTSC modified version of the USEPA Johnson and Ettinger (J/E) model (DTSC, 2011c) was used to estimate potential indoor air concentrations and associated health risks from soil vapor intrusion into indoor air. A detailed description of the equations used in this model is provided in the *User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings* (USEPA, 2004).

The remainder of this section focuses on evaluating indoor air exposures associated with the on-Site warehouses in Areas 4 and 5 (the former underground storage tank locations) and is presented as follows:

- Data Evaluation;
- Exposure Assessment;
- Modeling Input Parameters;
- Toxicity Assessment;
- Risk Characterization;
- Uncertainty Analysis; and
- Summary of Results.

6.1 Data Evaluation

This human health risk evaluation focuses on the vapor intrusion of contaminants in the subsurface into indoor air. Consistent with DTSC (2011a,b) guidance, it was assumed that the soil vapor data would account for any potential contaminants volatilizing from the subsurface (i.e., vadose zone soil and groundwater). As discussed in Sections 3.0 and 4.0, soil vapor samples were collected at the Site during the recent remedial investigation.

On March 26, 2013, eight shallow soil vapor samples were collected at the Site. Three samples each were collected from soil vapor probes installed beneath Buildings 1 and 3. Two samples were collected from soil vapor probes installed outside Building 3, adjacent to the former gasoline

UST. At each location, the vapor probe intake was placed at an approximate depth of 5.5 feet bgs in accordance with agency directives and accepted protocol. Soil vapor samples were analyzed for TPHg, BTEX, naphthalene, and MTBE by EPA Method 8260B; and methane, oxygen, carbon dioxide, and nitrogen. The laboratory analytical results for shallow soil vapor are presented in Table 3 and on Figure 5.

6.2 Exposure Assessment

This section describes the methods used to estimate exposures for potential human receptors at the Site. The exposure assessment provides a scientifically defensible basis for the selection of potentially exposed hypothetical human receptors and the most likely ways they might be exposed to chemicals at the Site. As mentioned previously, this human health risk evaluation focuses on evaluating potential indoor air exposures associated with the on-Site warehouses.

6.2.1 Selection of Chemicals of Potential Concern

Typically only the most toxic, persistent, and prevalent site-related chemicals detected at a site are fully evaluated in a risk assessment. While laboratory analytical results indicated that BTEX, naphthalene, MTBE, and TPH-gasoline are present in soil vapor, the LTCP indicates that the chemicals of greatest concern to human inhalation in indoor air are benzene, ethylbenzene, and naphthalene. In this way, the HHRE can focus solely on those chemicals that are expected to account for the majority of the estimated health impacts.

Although TPH-GRO was detected in seven of the eight soil vapor samples, the evaluation of its components most likely to reflect risk (i.e., benzene, ethylbenzene, and naphthalene) is included in this risk evaluation. Since naphthalene was not detected in the soil vapor samples it is not included in this risk evaluation. It is unlikely that other less toxic components of the TPH mixtures will drive the overall risk at the Site; therefore, TPH mixtures were not evaluated further in this risk evaluation. As a result, benzene and ethylbenzene have been selected as chemicals of potential concern (COPCs) for this HHRE.

6.2.2 Estimating Exposure Point Concentrations

The exposure point concentration (EPC) represents the amount of a chemical to which a hypothetical receptor is assumed exposed. Based on the assumption that a building may be located anywhere onsite, it is assumed that the hypothetical indoor commercial/industrial receptor may be located anywhere on-Site. Therefore, the maximum detected concentration (March 2013 sampling event) was selected as the appropriate source EPC or starting concentration for modeling. For indirect exposure pathways (i.e., inhalation), measured concentrations of volatile chemicals in soil vapor were used as starting concentrations that were coupled with mathematical models to estimate COPC concentrations in indoor air. The Johnson and Ettinger model, recommended by the DTSC (2011c), was used for estimating vapor emissions from soil vapor to indoor air. The conceptual approach to modeling indoor air concentrations, the model inputs used,

and the model outputs are presented in the following sections. The EPCs for soil gas are presented in Table 6.

6.2.2.1 Vapor Migration from Shallow Soil Vapor to Ground Surface

Vertical migration of chemicals in soil vapor to the ground surface was assumed to occur by steady-state diffusion induced by a chemical concentration gradient between the soil-vapor source and the soil surface. The indoor air pathway analysis also accounted for the effects of steady-state advection induced by an assumed pressure differential between the exterior and interior of the building. Chemical diffusion of soil vapor through the vadose zone and building foundations (indoor only) was characterized by effective diffusion coefficients, D_s^{eff} (vadose zone) and D_f^{eff} (building foundations). Advection of chemicals dissolved in soil moisture was assumed to be negligible. This assumption is conservative because soil moisture tends to migrate downward, decreasing the overall flux of chemical toward the surface. Chemical and biological transformations were conservatively assumed not to occur during migration to the surface.

6.2.2.2 Mixing of Soil Vapor Emissions with Indoor Air

The analysis of indoor air simulated vapor-phase advection and diffusion of chemicals near the building foundation. Vapor diffusion of chemicals upward was assumed to occur across a solid foundation with a total area (A) and fraction of open area in the foundation (η) (i.e., through cracks in the foundation). Advective transport of soil vapor was assumed to occur as a result of a simulated pressure differential between inside (lower pressure) and outside (higher pressure) of the building. Such underpressurization is generally induced by temperature differentials, wind loading, and operation of devices such as furnaces and exhaust fans. Underpressurization is highly variable over time, but was conservatively assumed to be constant in the model. This approach is highly conservative for periods when structures are neutrally or positively pressurized, as these conditions will inhibit migration of soil vapor into the building. The simulation assumes that the advective flux occurs through an open area (A_{crack}) equal to the product total area (A) and fraction of open area in the foundation (η). The mixing of vapor-phase chemicals with ambient indoor air was simulated using a constant building ventilation rate ($Q_{building}$).

6.2.2.3 Model Input Parameters

Using the DTSC J/E model (DTSC, 2011c) and the concentrations of chemicals measured in soil vapor, the resultant chemical concentrations in indoor air and associated human health risks from soil vapor intrusion into indoor air were estimated for the hypothetical commercial/industrial worker receptor. The equations, variables, and assumptions used in the model are described below.

The DTSC J/E model (DTSC, 2011c) estimates vapor concentrations in indoor air directly from concentrations in soil vapor, accounting for advection and diffusion in the vadose zone and building foundation and mixing in the building interior. As presented by USEPA (2004), for vapor migration from soil vapor to indoor air, concentrations in indoor air were estimated based on the following equations:

$$C_{building} = C_{source} \times \alpha$$

where:

$$\alpha = \frac{\left[\left(\frac{D_T^{eff} \times A_B}{Q_{building} \times L_T}\right) \times \exp\left(\frac{Q_{soil} \times L_{crack}}{D_{crack} \times A_{crack}}\right)\right]}{\left[\exp\left(\frac{Q_{soil} \times L_{crack}}{D_{crack} \times A_{crack}}\right) + \left(\frac{D_T^{eff} \times A_B}{Q_{building} \times L_T}\right) + \left(\frac{D_T^{eff} \times A_B}{Q_{soil} \times L_T}\right) \times \left[\exp\left(\frac{Q_{soil} \times L_{crack}}{D_{crack} \times A_{crack}}\right) - 1\right]\right]}$$

where:

$C_{building}$ = Ambient concentration in indoor air ($\mu g/m^3$);

C_{source} = Vapor concentration at source of contamination ($\mu g/m^3$);

α = Steady-state attenuation coefficient (unitless);

D_T^{eff} = Total overall effective diffusion coefficient (cm^2/s);

A_B = Area of enclosed space below grade (cm^2);

$Q_{building}$ = Building ventilation rate (cm^3/s);

L_T = Source-building separation (cm);

Q_{soil} = Volumetric flow rate of soil vapor into the enclosed space (cm^3/s);

L_{crack} = Enclosed space foundation or slab thickness (cm);

A_{crack} = Area of total cracks (cm^2); and

D_{crack} = Effective diffusion coefficient through the cracks (cm^2/s)
(assumed equivalent to D_i^{eff} of soil layer (i) in contact with the floor).

A more detailed description of the equations and input parameters used in this model are provided in the *User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings* (USEPA, 2004).

6.2.2.4 Source Concentrations and Site-Specific Physical Parameters

Using the equations and methodology presented above, vapor concentrations in indoor air were modeled assuming the concentrations of chemicals measured in soil vapor samples collected on March 26, 2013. During the recent remedial investigation, soil physical properties were not evaluated at the Site, except for a particle size distribution analysis (Appendix I). However, on January 31, 1997, a soil sample (B1) was collected at approximately 5.5 feet bgs and analyzed for bulk density, porosity, organic content, and moisture (Jonas, 1997). This soil sample was collected beneath Building 1 near the former gasoline UST excavation and was classified as clay. There has not been any re-development in this area; therefore, this soil sample should accurately reflect subsurface conditions. As stated in Section 6.2.1 above, benzene and ethylbenzene were selected as COPCs for this HHRE. The maximum benzene and ethylbenzene concentrations

detected in soil vapor samples were 23,000 and 5,200 µg/m^3, respectively, in SV-6 beneath Building 1; 2,400 and 140 µg/m^3, respectively, in SV-4 beneath Building 3, and 560,000 and 45,000 µg/m^3, respectively, in SV-5 located outside. While a building is not currently located above the location of SV-5, the soil vapor data was evaluated in this HHRE due to the elevated concentrations and the potential for a future building to be constructed over this location.

In addition to the chemical concentrations measured in soil vapor, the results of the soil physical properties analyses were used as input parameters for the vapor intrusion model. Based on the soil physical properties analyses (Appendix I), the appropriate United States Soil Conservation Service (SCS) soil textural classification within the Site was estimated. The particle size distribution analysis indicates that Site soils most closely fit with the "clay" SCS soil textural classification. A review of on-Site soil boring logs shows that this classification is consistent with the soils observed at 5.5 feet bgs during previous investigations. As a result, clay (C) was selected as the Vadose Zone SCS Soil Type input parameter for the vapor intrusion model. The soil dry bulk density for soil sample B-1 (collected in 1997 at 5.5 ft bgs) is 95.4 pounds per cubic foot or 1.53 grams per cubic centimeter (g/cm^3). The total porosity for soil sample B-1 was 0.428. The water-filled porosity is the portion of the total porosity containing water. This value can be calculated as the product of the moisture content of a soil times the dry bulk density. The moisture content for soil sample B-1 was 25.3%; therefore, the water-filled porosity is 0.387 cm^3/cm^3. The reported values for dry bulk density, total porosity, and water-filled porosity were used as model input parameters. In addition, in accordance with DTSC (2011c) default values, 24 degrees Celsius (^oC) for average soil temperature and 15 cm for depth to the bottom of an enclosed space floor for slab-on-grade construction were used in the model. A summary of the vapor intrusion model input parameters derived from the soil physical properties analyses and DTSC default values is provided in the following table.

Model Variables – Vapor Migration from Shallow Soil Vapor to Indoor Air

Properties	Symbol	Measured Value
Average Soil Temperature	T_s	24^{o}C
Depth Below Grade to Bottom of Enclosed Space Floor	L_F	15 cm
Soil Gas Sampling Depth Below Grade	L_S	167.6 cm
Vadose Zone SCS Soil Type		Clay (C)
Soil Dry Bulk Density	ρ_b	1.53 g/cm^3
Soil Total Porosity	N	0.428 cm^3/cm^3
Soil Water-Filled Porosity	θ_w	0.387 cm^3/cm^3

Notes:
^{o}C = degrees Celsius.
cm = centimeter.
g/cm^3 = grams per cubic centimeter.
cm^3/cm^3 = cubic centimeter per cubic centimeter.

6.2.2.5 Chemical-Specific Properties

The values for the dimensionless Henry's Law constant, organic carbon-water partition coefficient (K_{oc}), and molecular diffusion coefficients in air and water, D_i and D_w, for benzene and ethylbenzene was obtained from DTSC (2011c). The chemical-specific values for these input parameters are shown on the work sheets provided in Appendix J.

6.2.2.6 Building Properties

The DTSC J/E model assumes default values for a residential single-family dwelling, which is 1,000 centimeter (cm) by 1,000 cm (approximately 1090 ft^2; DTSC, 2011c). The actual footprints of the Buildings 1 and 3 are much larger at approximately 55,000 ft^2 and 30,000 ft^2, respectively. Although the default building properties were based on a residential dwelling, conservatively, the default values in the model were not modified.

6.3 Toxicity Assessment

Toxicity values are combined with exposure factors to estimate adverse non-cancer health effects and excess cancer risks. Toxicity values include inhalation reference concentrations (RfCs) and inhalation unit risk factors (URFs). Non-cancer health effects are evaluated using an inhalation RfC, which is expressed in units of milligrams per cubic meter (mg/m^3). An RfC represents an agency-developed, estimated daily exposure level (dose) to which humans may be exposed without expectation of adverse health effects. USEPA assumes the existence of a threshold concentration for non-cancer effects, below which toxic effects are not expected to occur (USEPA, 1989). USEPA has developed inhalation URFs for chemicals that are known or potential human carcinogens. USEPA (1989) defines an URF as a plausible upper-bound estimate of the probability of a carcinogenic response in human populations per unit intake of a chemical (averaged over an expected lifetime of 70 years). URFs are used to estimate excess cancer risks are expressed in units of risk per dose in micrograms per cubic meter $(\mu g/m^3)^{-1}$ for inhalation URF. Toxicity values supplied by the model (DTSC, 2011c) were used.

6.4 Risk Characterization

The risk characterization process incorporates estimated chemical intakes, exposure assumptions, and toxicity values to estimate non-cancer adverse health effects and excess cancer risks from assumed exposure to chemical vapors in indoor air. Consistent with USEPA (1989; 1991) guidelines, the following general equations were used in the DTSC J/E model to estimate non-cancer adverse health effects (expressed as hazard quotient or hazard index) and carcinogenic effects (expressed as excess cancer risk):

$$Hazard\,Quotient = \frac{C_{building} \times ET \times EF \times ED}{RfC \times ATn}$$

$$Excess\,Cancer\,Risk = \frac{C_{building} \times ET \times EF \times ED \times URF}{ATc}$$

Where:

$C_{building}$	=	Chemical concentration in indoor air (µg/m^3)
EF	=	Exposure frequency (**250 days/year**)
ED	=	Exposure duration (**25 years**)
ET	=	Exposure time (**8 hours/day**)
ATn	=	Averaging time (hours) for non-carcinogenic effects ATn = ED x 365 days/year x 24 hours/day
ATc	=	Averaging time (hours) for carcinogenic effects ATc = Lifetime (70 years) x 365 days/year x 24 hours/day
RfC	=	Inhalation reference concentration
URF	=	Inhalation unit risk factor

The values shown in bold are standard default values used by USEPA, DTSC, and CRWQCB for commercial/industrial worker exposure scenarios.

The spreadsheets containing model input parameters and results of the DTSC J/E model, for subsurface vapor intrusion into buildings (DTSC, 2011c) are presented in Appendix J. The results of this risk characterization process for the hypothetical indoor commercial/industrial worker receptor are summarized in Table 6.

6.5 Uncertainty Analysis

Although many factors can contribute to the potential for over- or underestimating risk, a mixture of conservative and upper-bound input values were identified to estimate potential exposures. Compounding conservative and upper-bound input values in the risk assessment process is intended to yield maximum, health-conservative estimates. Quantifying uncertainty is an essential element of the risk assessment process. According to the USEPA *Guidance on Risk Characterization for Risk Managers and Risk Assessors*, point estimates of risk "do not fully convey the range of information considered and used in developing the assessment" (USEPA, 1992). This section presents the major sources of uncertainty associated with the risk assessment.

Specifically, the DTSC J/E model employs a series of simplified, analytical solutions to chemical transport, often resulting in overestimation of indoor air EPCs. The conservatism inherent to the formulation of these models is supplemented by additional conservatism associated with selection of model input data and conceptualization of site conditions used by model users. As a result of this multilevel conservatism, actual EPCs and corresponding health risks are likely to be significantly lower than were estimated for the inhalation exposure pathway.

Some of the conservative aspects of the DTSC J/E model include the following assumptions:

- Loss mechanisms - The absence of loss mechanisms such as biodegradation and vapor-phase adsorption result in overestimation of vapor emissions to indoor air, yielding higher EPCs.
- Depleting contaminant source - The use of a non-depleting, constant source results in an unlimited supply of contaminated vapor and an overestimation of vapor emissions to indoor air, yielding higher EPCs.
- Water movement - The assumed absence of water (and dissolved chemical) movement through unsaturated soil results in an overestimation of chemical mass in vapor-phase available for transport to indoor air, yielding higher EPCs.
- Neutral or positive pressurization - The assumption of continuously under-pressurized buildings neglects significant periods where neutral or positive pressurized conditions exist, thereby over-estimating advective transport of contaminated vapors to indoor air, yielding higher EPCs.
- One-dimensional transport - The assumption of vapor transport under a single (vertical) dimension ignores the potential for vapor migration in multiple directions away from the source area, resulting in an over-estimation of vapor emissions and higher EPCs.
- Indoor points of exposure (buildings) are assumed to directly overlie locations of sources in soil vapor.
- COPCs are assumed to be uniformly distributed in soil vapor, with no spatial and temporal changes in concentrations.
- Area of the buildings were assumed to be equivalent to a residential dwelling. However, actual areas of Buildings 1 and 3 are 50 and 27 times larger, respectively, than a typical residential dwelling. A larger building area would result in more dispersion in indoor air.
- Averaging times for estimation of EPCs are 25 years for commercial exposure scenarios.

As a result of these conservative assumptions, estimated emissions to indoor air are maximized, yielding EPCs and corresponding human health risks that are biased high.

6.6 Summary of Results

A human health risk evaluation was performed using the DTSC J/E model (2011c) to assess potential human health risks associated with soil vapor intrusion to indoor air. The results of this risk characterization process for the hypothetical indoor commercial/industrial worker receptor are summarized in Table 6 and presented below.

Summary of Results of Human Health Risk Evaluation for Shallow Soil Vapor						
Location	**Sample ID**	**Sample Depth** (feet bgs)	**Chemical**	**Exposure Point Concentration** ($\mu g/m^3$)	**Hazard Index**	**Excess Cancer Risk**
Building 1	SV-6	5.5	benzene	23,000	**7×10^{-4}**	**2×10^{-7}**
			ethylbenzene	5,200	**4×10^{-6}**	**3×10^{-9}**
Building 3	SV-4	5.5	benzene	2,400	**8×10^{-5}**	**2×10^{-8}**
			ethylbenzene	140	**1×10^{-7}**	**9×10^{-11}**
Outside (adjacent to UST excavation)	SV-5	5.5	benzene	560,000	**2×10^{-2}**	**6×10^{-6}**
			ethylbenzene	45,000	**3×10^{-5}**	**3×10^{-8}**

Notes:
$\mu g/m^3$= micrograms per cubic meter
feet bgs = feet below ground surface

USEPA guidance on risk and exposure levels considered protective of human health is presented to provide context for interpretation of the estimates of excess cancer risk and non-cancer hazards presented in this human health risk evaluation. Adverse non-cancer effects are compared to the USEPA recommended target HI of one (1; USEPA, 1989). Excess cancer risks are compared to the USEPA risk management range of one-in-one-million (1×10^{-6}) to one-in-ten thousand (1×10^{-4}).

In both Buildings 1 and 3, the estimated HI does not exceed the USEPA recommended target hazard index (HI) of one (1; USEPA, 1989) and the excess cancer risk estimate is less than the most stringent end of the USEPA risk management range of one-in-one-million (1×10^{-6}) to one-in-ten thousand (1×10^{-4}). At the outside sample location (SV-5), the estimated HI does not exceed the USEPA recommended target HI of one, and the excess cancer risk estimate (6×10^{-6}) lies within the USEPA risk management range of one-in-one-million (1×10^{-6}) to one-in-ten thousand (1×10^{-4}).

Based on the results of this conservative evaluation, under current site conditions for the indoor commercial/industrial worker receptor, potential exposure to COPCs in soil vapor is not expected to pose an unacceptable human health risk to occupational receptors in Buildings 1 and 3.

7.0 DATA EVALUATION AND RECOMMENDATIONS

Remedial investigation activities were conducted at the Site in March 2013. Quarter 1, 2013 groundwater monitoring and sampling activities were performed at the Site on April 5, 2013. A discussion of SGI's conclusions and recommendations based on the results, are presented below.

7.1 Data Evaluation

The following sections discuss the results of the soil, soil vapor, and groundwater investigations at the Site. A discussion of how the results compare with the LTCP Criterion is included.

7.1.1 Soil

Soil sampling was conducted on March 21 and 22, 2013. A total of 33 soil samples were collected from the 11 soil borings drilled on Site (three samples from each boring).

Based on laboratory analytical results, TPH- and BTEX-containing soil remain in the subsurface. TPH-DRO and TPH-MRO impacts were detected in soil samples from borings MW-9, MW-10 and MW-11 (along the downgradient boundary of the Site); however, the shallow nature of the impacts are indicative of a surface release rather than impacts from the former UST, and the groundwater data at these locations indicate no significant impact from this shallow soil contamination to groundwater. Additionally, the absence of BTEX compounds indicate the impacts are not associated with the former UST, rather are indicative a historical surface release prior to building construction.

Soil impacts in SV-4, SV-5 and SV-6 are primarily TPH-GRO and BTEX compounds. These borings are located in the vicinity of the former and suspected gasoline USTs, and impacted soil is presumably associated with the former USTs.

All current and historical detected concentrations of benzene and ethylbenzene in soil samples are below the LTCP Criterion 3a (Direct Contact and Outdoor Air Exposure) levels for commercial/industrial and utility worker use scenario (CRWQCB, 2012; Table 1). There are limited historical soil sample results for naphthalene, all below the naphthalene threshold presented in the LTCP Table 1. However, the relative concentration of naphthalene in soil can be conservatively estimated using the published relative concentrations of naphthalene and benzene in gasoline. Taken from Potter and Simmons (1998), gasoline mixtures contain approximately 3% benzene and 0.25% naphthalene. Therefore, benzene can be directly substituted for naphthalene concentrations with a safety factor of ten. Benzene concentrations for the Site are below the naphthalene thresholds in Table 1 of the LTCP. Therefore, the estimated naphthalene concentrations meet the thresholds in Table 1 and the LTCP criteria for direct contact by a factor of ten. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

7.1.2 Soil Vapor

Soil vapor samples were collected from eight permanent soil vapor probes on March 26, 2013. The highest concentrations of TPH-GRO in soil vapor were detected in samples from SV-3, SV-4 and SV-5, located in the vicinity of the former gasoline UST near Building 3. The highest concentrations of benzene in soil vapor were detected in samples from SV-3, SV-4, SV-5, and SV-6. SV-6 is located in the area of the suspected gasoline UST in Building 1.

Direct comparison with the LTCP indicates that soil gas criteria levels are exceeded (i.e., benzene >280 µg/m^3) in four of the nine soil vapor samples. Thus, further evaluation was made. A human health risk evaluation was conducted to estimate potential indoor air concentrations and associated human health risks from benzene and ethylbenzene in soil vapor.

The Site meets LTCP Criterion 2b (Petroleum Vapor Intrusion to Indoor Air). As presented in Section 6.0, a site-specific risk assessment for the vapor intrusion pathway was conducted.

In both Building 1 and 3, the estimated HI does not exceed the USEPA recommended target hazard index (HI) of one (1; USEPA, 1989) and the excess cancer risk estimate is less than the most stringent end of the USEPA acceptable risk range of one-in-one-million (1×10^{-6}) to one-in-ten thousand (1×10^{-4}). At the outside sample location (SV-5), the estimated HI does not exceed the USEPA recommended target HI of one and the excess cancer risk estimate (6×10^{-6}) lies within the USEPA acceptable risk range of one-in-one-million (1×10^{-6}) to one-in-ten thousand (1×10^{-4}).

Based on the results of this evaluation, under current site conditions for the indoor commercial/industrial worker receptor, potential exposure to COPCs in soil vapor is not expected to pose an unacceptable human health risk to occupational receptors in Buildings 1 and 3.

The results of this risk characterization process for the hypothetical indoor commercial/industrial worker receptor are summarized in Table 6.

7.1.3 Groundwater

The Quarter 1, 2013 semi-annual groundwater monitoring and sampling event was conducted on April 5, 2013. Groundwater elevation data indicates shallow zone groundwater flows in a southwesterly direction in Areas 4 and 5, which is consistent with historical groundwater flow patterns.

TPH-GRO concentration trends are stable in all wells with the highest concentrations in wells downgradient of the former gasoline UST at Building 3. TPH-GRO was not detected in boundary wells MW-1, MW-5, MW-9, MW-10, and MW-11, indicating that groundwater containing TPH-GRO is delineated within the Site.

TPHd concentration trends are stable or decreasing. Historically, the highest concentrations have occurred in well MW-3, adjacent of the former gasoline UST at Building 3. TPHd was not detected in boundary wells MW-1, MW-5, MW-9, MW-10, and MW-11, indicating that TPHd-containing groundwater is delineated within the Site.

TPHmo concentration trends are generally stable and within historic ranges, with the exception of wells MW-5, E-2, E-3, E-6, and E-8, which were increasing. Well E-3 exhibited the largest concentration increase, at an order of magnitude greater than the historical maximum. TPHmo concentrations were detected in boundary wells MW-1, MW-5, MW-10, and MW-11.

Benzene concentration trends are stable or decreasing in all wells with the exception of E-8, which shows a slightly increasing trend.

A comparison of groundwater-specific criteria to LTCP Criterion 2 for Groundwater is appropriate for this Site as follows:

a) The contaminant plume is less than 250 feet in length. While TPHmo was detected in boundary monitoring wells, the decrease in boundary well concentrations over the distance from the highest concentration well (E-3) indicates that the TPHmo plume is presumably less than 250 feet in length.

b) No free product has been reported in Site groundwater monitoring wells.

c) No water supply wells are located within ¼-mile of the Site, and the nearest downgradient surface water body is approximately 5,000 feet southwest of the Site.

d) Quarter 1, 2013 groundwater analytical results indicate that benzene concentrations are less than 3,000 µg/L and MTBE concentrations are less than 1,000 µg/L, the thresholds presented in the LTCP Criterion 2 for Groundwater. Historical groundwater analytical results show that benzene has exceeded the 3,000 µg/L threshold in certain wells located in the Site interior. However, benzene never not been detected above 3,000 µg/L in downgradient wells.

7.2 Recommendations

Based on the conclusions presented above, SGI recommends Site closure (ACEH Case# RO0000320) under the State Water Resource Control Board's Low-Threat Underground Storage Tank Case Closure Policy (CRWQCB, 2012).

8.0 REFERENCES

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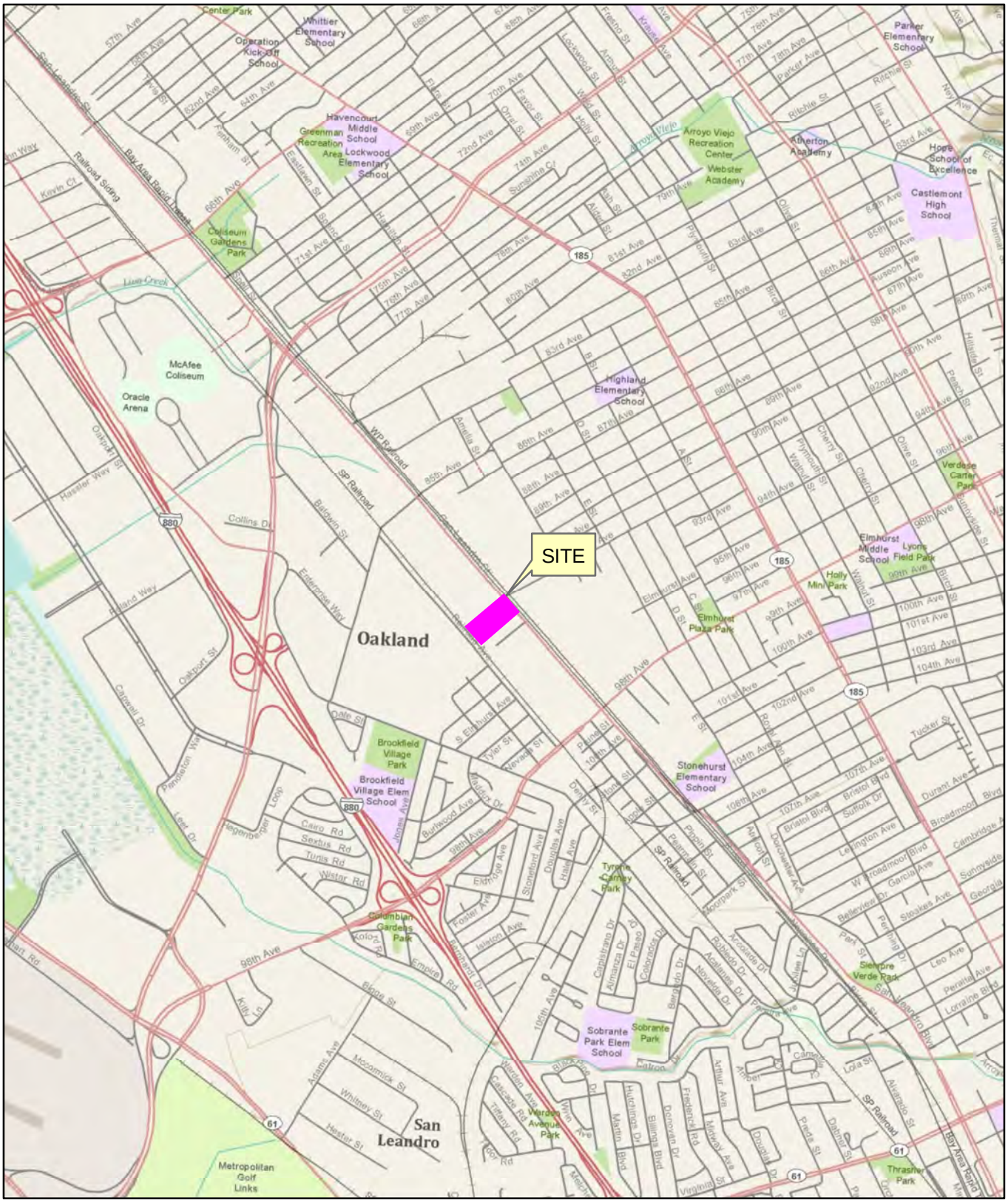
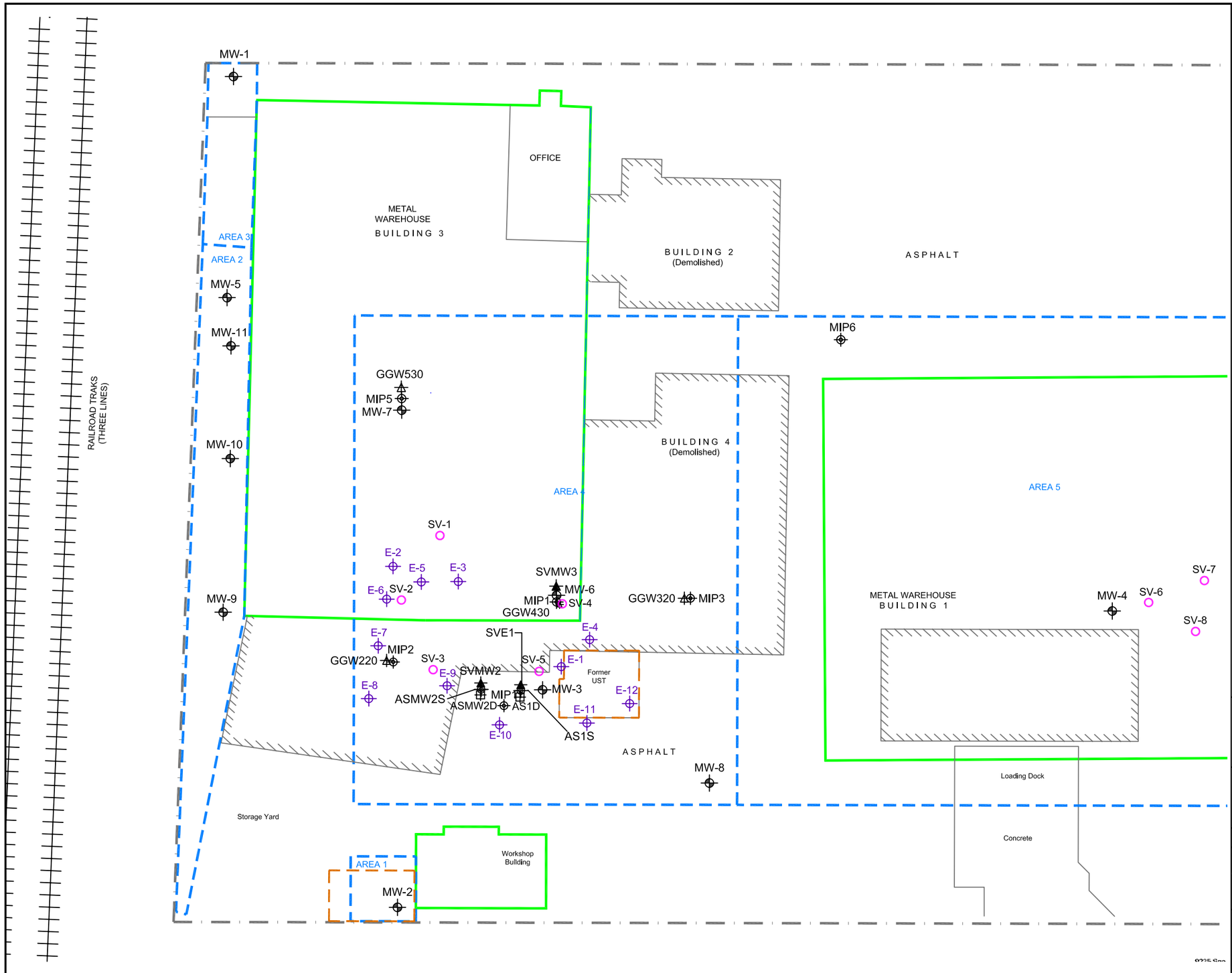
FIGURES



SOURCE: 7.5 MINUTE USGS TOPOGRAPHIC MAP FROM ARCGIS MAP SERVICE

SGI environmental THE SOURCE GROUP, INC. 1962 FREEMAN AVE. SIGNAL HILL, CA 90755	PROJECT NO.: 04-PFT-001	DATE: 10/14/2009	DR.BY: AC	APP.BY: SS	SCALE 1:24,000 0 875 1,750 3,500 Feet N
	FORMER PACO PUMPS FACILITY 9201 SAN LEANDRO STREET OAKLAND, CALIFORNIA				**SITE LOCATION MAP** FIGURE **1**



LEGEND

- Site Boundary
- Project Areas of Concern
- Area of Excavation
- Building Outline
- Former Buildings
- Railroad Tracks
- AS1D — Deep Groundwater Air Injection or Air Injection Monitoring Well by LFR January 2009
- AS1S — Shallow Groundwater Air Injection or Air Injection Monitoring Well LFR January 2009
- MW-1 — Groundwater Monitoring Well
- SV-6 — Soil Vapor Probe by SGI 2013
- E-1 — Groundwater Monitoring Well by SGI 2010
- SVMW3 — Vadose Well by LFR January 2009
- MIP1 — Membrane Interface Probe by LFR January 2009
- GGW220 — Grab Groundwater Sample Location by LFR January 2009

SITE PLAN

FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

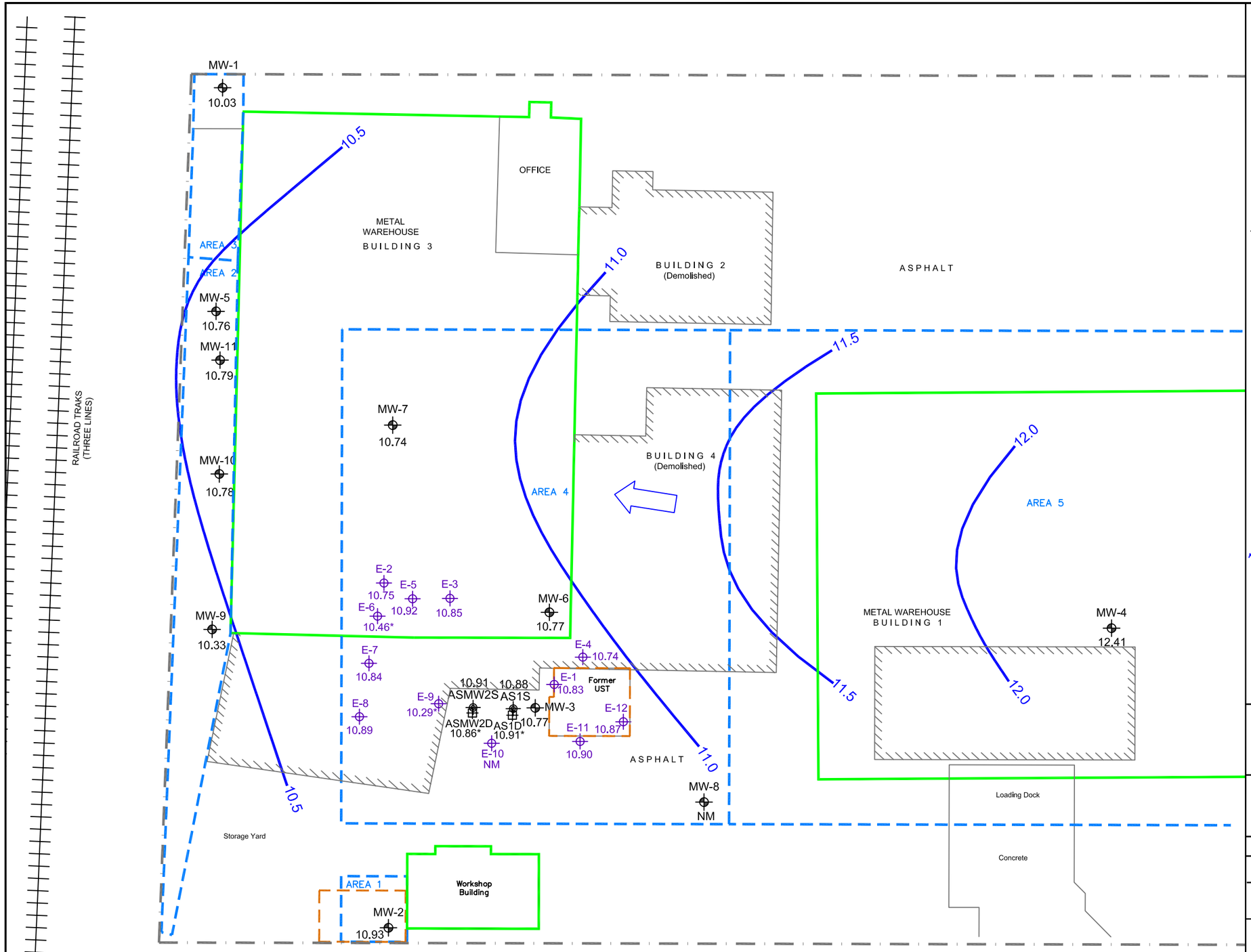
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-004	05/07/2013	XX	XX

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

SGI environmental
THE SOURCE GROUP, INC.
3478 BUSKIRK AVENUE, SUITE 100
PLEASANT HILL, CA 94523

N

FIGURE
2



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- AS1S — Shallow Groundwater Air Injection or Air Injection Monitoring Well LFR January 2009
- MW-1 — Groundwater Monitoring Well
- E-1 — Groundwater Monitoring Well by SGI 2010
- 10.90 — Groundwater Elevation (Feet Above Mean Sea Level)
- * — Data Not Used For Contouring
- NM — Not Measured
- Groundwater Flow Direction
- 10.5 — Groundwater Contour (Feet Above Mean See Level)

GROUNDWATER ELEVATION AND POTENTIOMETRIC SURFACE MAP- MARCH 2013

FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

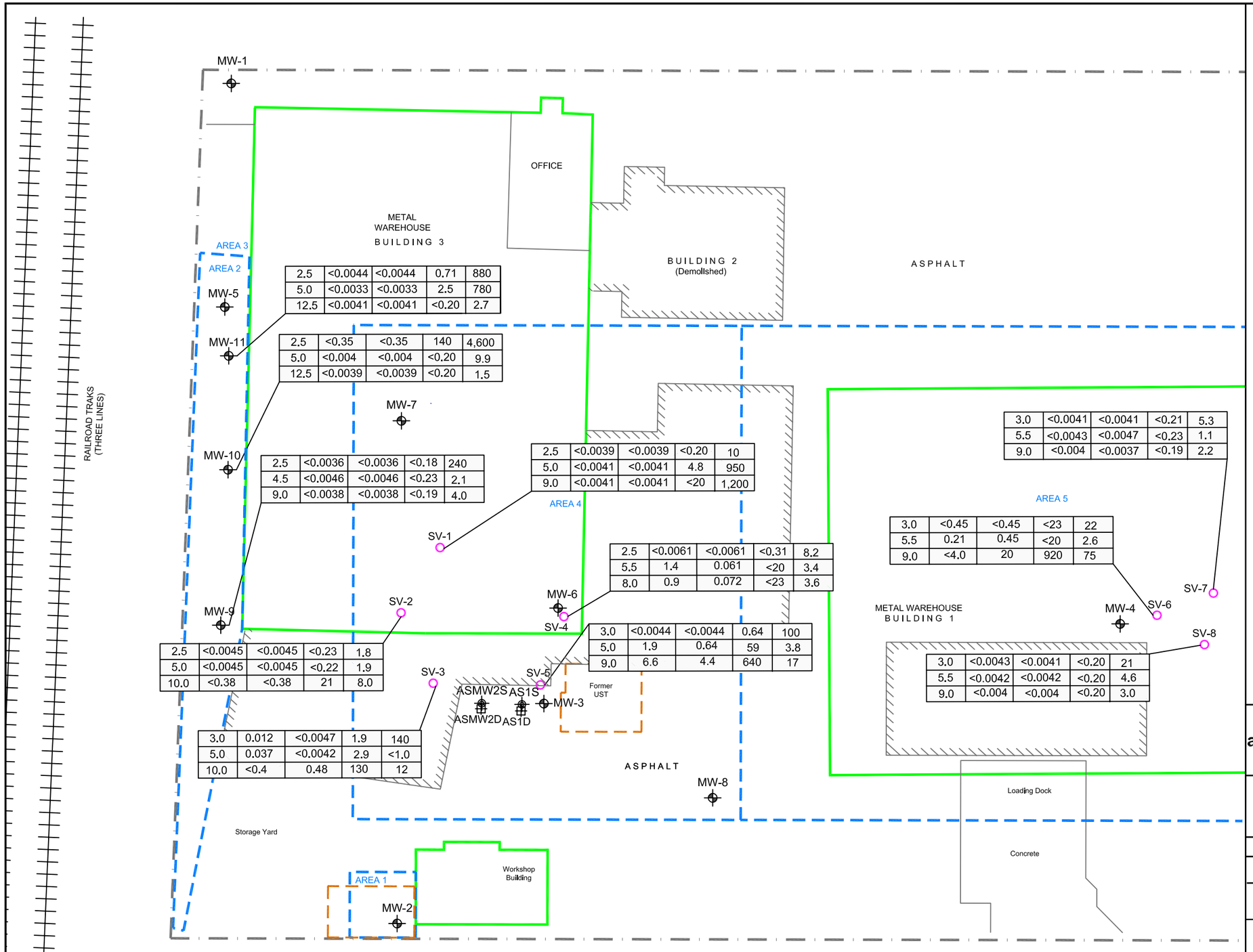
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-004	05/07/2013	XX	XX

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

SGI environmental
THE SOURCE GROUP, INC.
3478 BUSKIRK AVENUE, SUITE 100
PLEASANT HILL, CA 94523

N

FIGURE 3



2.5	<0.0044	<0.0044	0.71	880
5.0	<0.0033	<0.0033	2.5	780
12.5	<0.0041	<0.0041	<0.20	2.7

2.5	<0.35	<0.35	140	4,600
5.0	<0.004	<0.004	<0.20	9.9
12.5	<0.0039	<0.0039	<0.20	1.5

2.5	<0.0036	<0.0036	<0.18	240
4.5	<0.0046	<0.0046	<0.23	2.1
9.0	<0.0038	<0.0038	<0.19	4.0

2.5	<0.0039	<0.0039	<0.20	10
5.0	<0.0041	<0.0041	4.8	950
9.0	<0.0041	<0.0041	<20	1,200

2.5	<0.0061	<0.0061	<0.31	8.2
5.5	1.4	0.061	<20	3.4
8.0	0.9	0.072	<23	3.6

3.0	<0.0044	<0.0044	0.64	100
5.0	1.9	0.64	59	3.8
9.0	6.6	4.4	640	17

2.5	<0.0045	<0.0045	<0.23	1.8
5.0	<0.0045	<0.0045	<0.22	1.9
10.0	<0.38	<0.38	21	8.0

3.0	0.012	<0.0047	1.9	140
5.0	0.037	<0.0042	2.9	<1.0
10.0	<0.4	0.48	130	12

3.0	<0.0041	<0.0041	<0.21	5.3
5.5	<0.0043	<0.0047	<0.23	1.1
9.0	<0.004	<0.0037	<0.19	2.2

3.0	<0.45	<0.45	<23	22
5.5	0.21	0.45	<20	2.6
9.0	<4.0	20	920	75

3.0	<0.0043	<0.0041	<0.20	21
5.5	<0.0042	<0.0042	<0.20	4.6
9.0	<0.004	<0.004	<0.20	3.0

LEGEND

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- AS1S — Shallow Groundwater Air Injection or Air Injection Monitoring Well LFR January 2009
- MW-1 — Groundwater Monitoring Well
- SV-6 — Soil Vapor Probe by SGI 2013

Depth (ft bgs)	Benzene	Ethylbenzene	TPH-GRO	TPH-DRO
3.0	<0.0041	<0.0041	<0.21	5.3
5.5	<0.0043	<0.0047	<0.23	1.1
9.0	<0.004	<0.0037	<0.19	2.2

<0.19	Not Detected At A Concentration Grater Than The Reporting Limit
TPH-GRO	Total Petroleum Hydrocarbons - Gasoline Range Organics
TPH-DRO	Total Petroleum Hydrocarbons - Diesel Range Organics
ft bgs	Feet below ground surface

All concentrations in milligrams per kilogram (mg/kg)

BENZENE, ETHYLBENZENE, TPH-GRO, and TPH-DRO CONCENTRATIONS IN SOIL MARCH 2013

FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

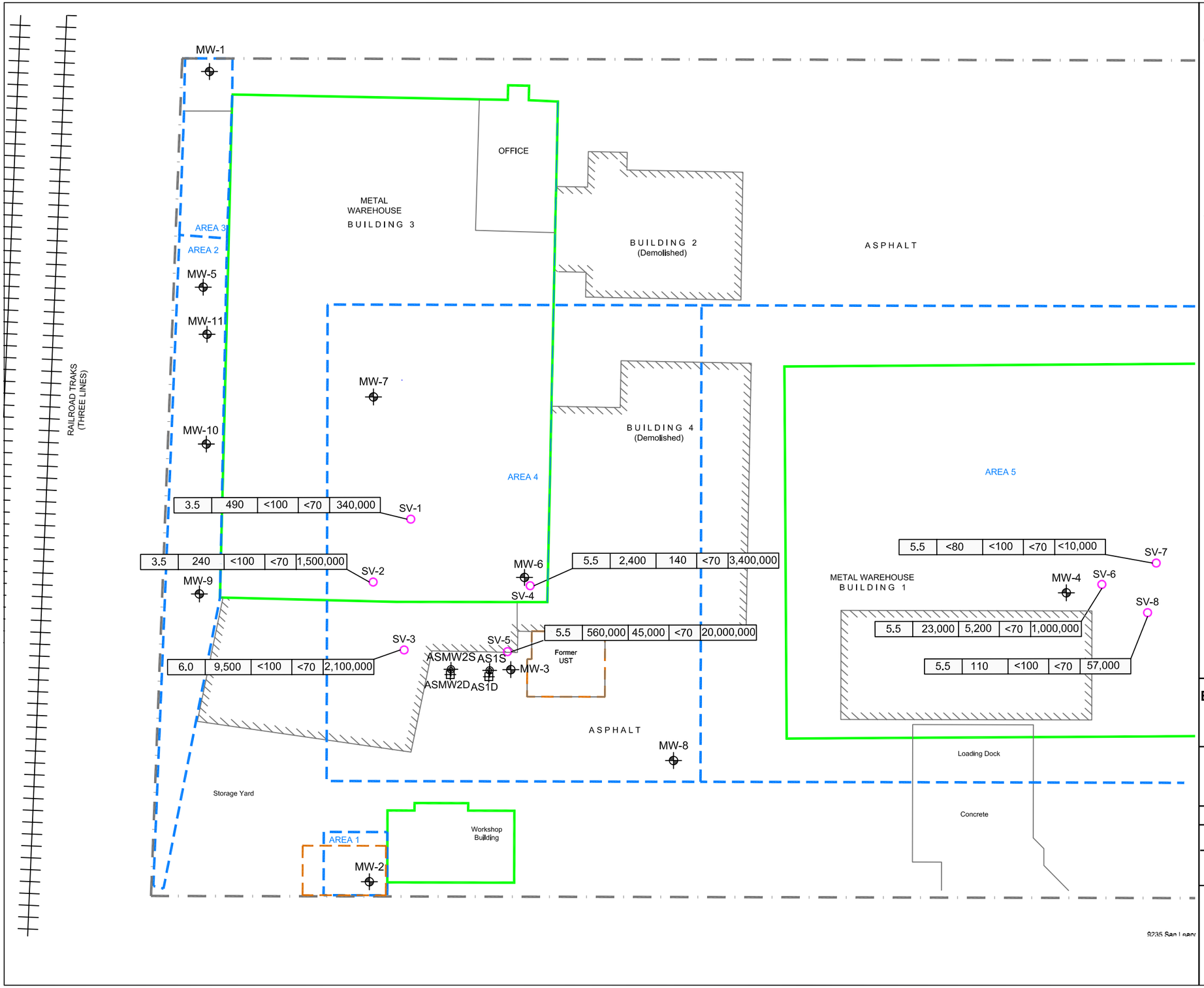
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-004	05/07/2013	XX	XX

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

SGI environmental
THE SOURCE GROUP, INC.
3478 BUSKIRK AVENUE, SUITE 100
PLEASANT HILL, CA 94523

N

FIGURE 4



LEGEND

- Site Boundary
- Project Areas of Concern
- Area of Excavation
- Building Outline
- Former Buildings
- Railroad Tracks
- AS1D — Deep Groundwater Air Injection or Air Injection Monitoring Well by LFR January 2009
- AS1S — Shallow Groundwater Air Injection or Air Injection Monitoring Well LFR January 2009
- MW-1 — Groundwater Monitoring Well
- SV-6 — Soil Vapor Probe by SGI 2013

Depth (ft bgs)	Benzene	Ethylbenzene	Naphthalene	TPH-GRO
5.5	<80	<100	<70	<10,000

<70	Not Detected At A Concentration Grater Than The Reporting Limit
TPH-GRO	Total Petroleum Hydrocarbons - Gasoline Range Organics
ft bgs	Feet below ground surface

All concentrations in microgram per cubic meter (µg/m³)

BENZENE, ETHYLBENZENE, NAPHTHALENE, AND TPH-GRO CONCENTRATIONS IN SOIL VAPOR- MARCH 2013

FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

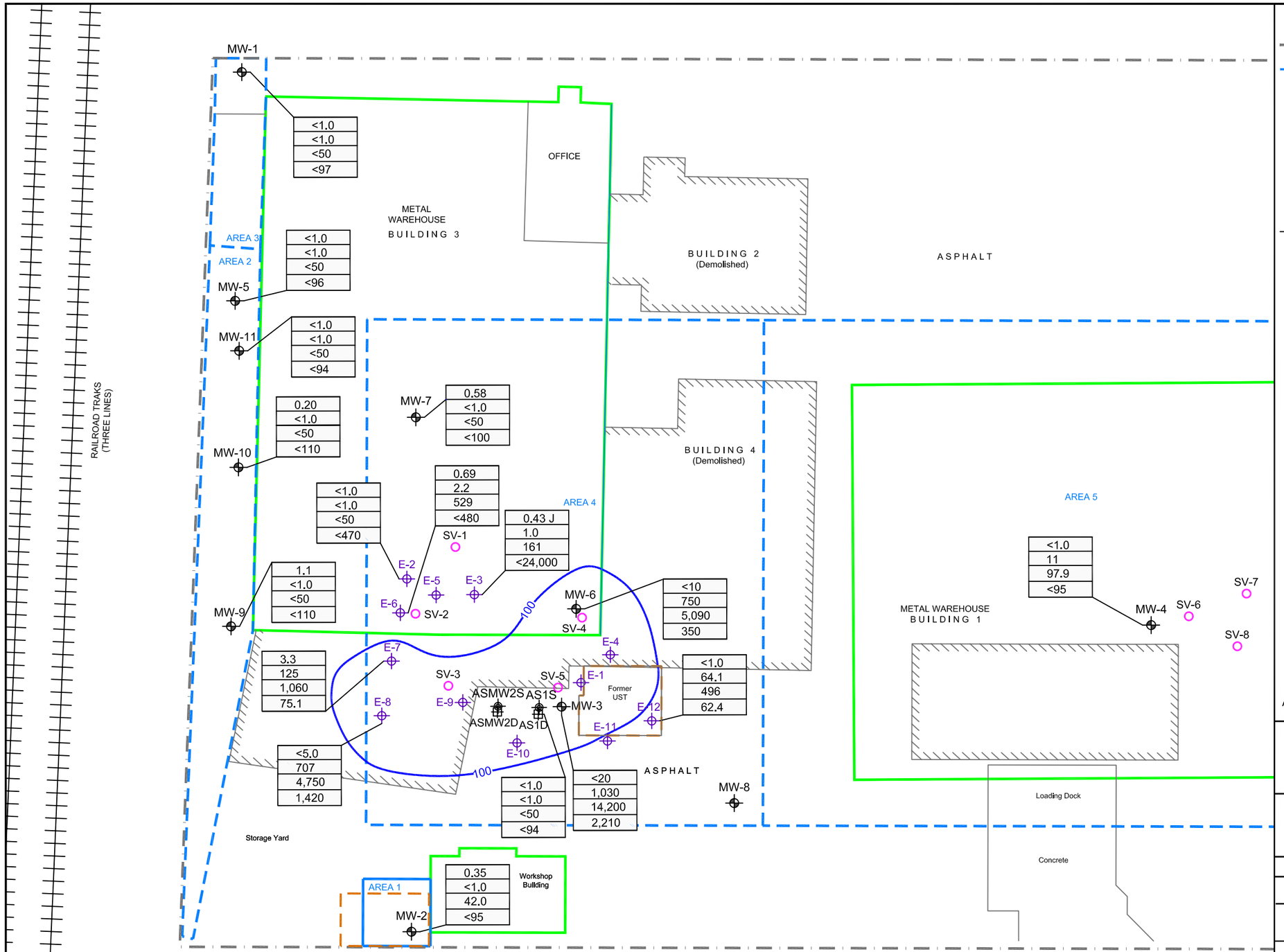
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-004	05/07/2013	XX	XX

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

SGI environmental
THE SOURCE GROUP, INC.
3478 BUSKIRK AVENUE, SUITE 100
PLEASANT HILL, CA 94523

N

FIGURE 5



LEGEND

- Site Boundary
- Project Areas of Concern
- Area of Excavation
- Building Outline
- Former Buildings
- Railroad Tracks
- AS1D — Deep Groundwater Air Injection or Air Injection Monitoring Well by LFR January 2009
- AS1S — Shallow Groundwater Air Injection or Air Injection Monitoring Well LFR January 2009
- MW-1 — Groundwater Monitoring Well
- E-1 — Groundwater Monitoring Well by SGI 2010
- MW-7: 0.58 Methyl Tert-Butyl Ether (MTBE); <1.0 Benzene; <50 TPH-GRO; <100 TPHd
- <1.0 — Not Detected At A Concentration Grater Than The Reporting Limit
- TPH-GRO — Total Petroleum Hydrocarbons - Gasoline Range Organics
- TPHd — Total Petroleum Hydrocarbons As Diesel
- J — Estimated Value Above Method Detection Limit but Below Laboratory Reporting Limit
- —100— Benzene Isoconcentration Contour

All concentrations in micrograms per liter (µg/L)

MTBE, BENZENE, TPH-GRO, AND TPH-DRO CONCENTRATIONS IN GROUNDWATER - APRIL 2013

FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-004	05/07/2013	XX	XX

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

SGI environmental
THE SOURCE GROUP, INC.
3478 BUSKIRK AVENUE, SUITE 100
PLEASANT HILL, CA 94523

N

FIGURE 6

TABLES

Table 1
Current and Historical Groundwater Elevations
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Well Identification	Date Collected	Top-of-Casing Elevation [1]	Depth to Groundwater [2]	Groundwater Elevation [1]
MW-1	15-Nov-92	18.05	9.34	8.71
	9-Mar-93		8.50	9.55
	21-Jul-93		9.00	9.05
	26-May-94		9.06	8.99
	24-Aug-94		8.40	9.65
	22-Nov-94		8.20	9.85
	8-Feb-95		8.30	9.75
	31-May-95		9.35	8.70
	8-Aug-95		9.16	8.89
	29-Nov-95		9.28	8.77
	29-Feb-96		7.62	10.43
	23-May-96		8.28	9.77
	4-Nov-96		9.20	8.85
	13-May-97		9.04	9.01
	14-Nov-07		8.50	9.55
	17-Jun-08		9.04	9.01
	13-Jan-09	17.76	8.65	9.11
	28-Apr-09		8.67	9.09
	6-Nov-09		8.79	8.97
	28-Jun-10		8.77	8.99
	30-Dec-10		7.20	10.56
	8-Jun-11		8.12	9.64
	15-Dec-11		8.76	9.00
	28-Mar-12		6.90	10.86
	13-Sep-12		8.92	8.84
	5-Apr-13		7.73	10.03
MW-2	15-Nov-92	19.40	10.05	9.35
	9-Mar-93		9.21	10.19
	21-Jul-93		9.72	9.68
	26-May-94		9.58	9.82
	24-Aug-94		9.98	9.42
	22-Nov-94		8.70	10.70
	8-Feb-95		8.68	10.72
	31-May-95		9.48	9.92
	8-Aug-95		9.64	9.76
	29-Nov-95		9.86	9.54
	29-Feb-96		8.12	11.28
	23-May-96		8.70	10.70
	4-Nov-96		9.50	9.90
	13-May-97		9.44	9.96
	14-Nov-07		8.94	10.46
	17-Jun-08		9.57	9.83
	13-Jan-09	19.12	9.21	9.91
	28-Apr-09		9.30	9.82
	6-Nov-09		8.91	10.21
	28-Jun-10		9.33	9.79
	30-Dec-10		7.52	11.60
	8-Jun-11		8.52	10.60
	15-Dec-11		9.25	9.87
	28-Mar-12		7.45	11.67
	13-Sep-12		9.50	9.62
	5-Apr-13		8.19	10.93

Table 1
Current and Historical Groundwater Elevations
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Well Identification	Date Collected	Top-of-Casing Elevation [1]	Depth to Groundwater [2]	Groundwater Elevation [1]
MW-3	15-Nov-92	19.70	10.35	9.35
	9-Mar-93		9.19	10.51
	21-Jul-93		11.07	8.63
	26-May-94		10.04	9.66
	24-Aug-94		11.08	8.62
	22-Nov-94		8.92	10.78
	8-Feb-95		8.90	10.80
	31-May-95		10.16	9.54
	8-Aug-95		9.92	9.78
	29-Nov-95		10.7	9.00
	29-Feb-96		8.52	11.18
	23-May-96		8.15	11.55
	4-Nov-96		7.21	12.49
	13-May-97		9.82	9.88
	14-Nov-07		9.21	10.49
	17-Jun-08		9.81	9.89
	13-Jan-09	19.42	9.58	9.84
	28-Apr-09		9.59	9.83
	6-Nov-09		9.52	9.90
	28-Jun-10		9.60	9.82
	30-Dec-10		7.74	11.68
	8-Jun-11		8.80	10.62
	15-Dec-11		9.54	9.88
	28-Mar-12		7.74	11.68
	13-Sep-12		9.69	9.73
	5-Apr-13		8.65	10.77
MW-4	15-Nov-92	19.65	8.87	10.78
	9-Mar-93		7.96	11.69
	21-Jul-93		8.06	11.59
	26-May-94		8.57	11.08
	24-Aug-94		8.75	10.90
	22-Nov-94		7.41	12.24
	8-Feb-95		7.20	12.45
	31-May-95		8.32	11.33
	8-Aug-95		8.66	10.99
	29-Nov-95		8.93	10.72
	29-Feb-96		6.54	13.11
	23-May-96		7.24	12.41
	4-Nov-96		8.58	11.07
	13-May-97		8.42	11.23
	14-Nov-07		7.61	12.04
	17-Jun-08		8.31	11.34
	13-Jan-09	19.37	NM	NM
	28-Apr-09		NM	NM
	6-Nov-09		8.00	11.37
	28-Jun-10		8.05	11.32
	30-Dec-10		5.70	13.67
	8-Jun-11		6.88	12.49
	15-Dec-11		8.88	10.49
	28-Mar-12		5.77	13.60
	13-Sep-12		8.29	11.08
	5-Apr-13		6.96	12.41

Table 1
Current and Historical Groundwater Elevations
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Well Identification	Date Collected	Top-of-Casing Elevation [1]	Depth to Groundwater [2]	Groundwater Elevation [1]
MW-5	24-Aug-94	18.49	8.22	10.27
	22-Nov-94		7.90	10.59
	8-Feb-95		7.92	10.57
	31-May-95		8.74	9.75
	8-Aug-95		8.93	9.56
	29-Nov-95		9.11	9.38
	29-Feb-96		7.36	11.13
	23-May-96		7.92	10.57
	4-Nov-96		8.78	9.71
	13-May-97		8.82	9.67
	14-Nov-07		8.16	10.33
	17-Jun-08		8.75	9.74
	13-Jan-09	18.21	8.46	9.75
	28-Apr-09		8.50	9.71
	6-Nov-09		9.93	8.28
	28-Jun-10		8.42	9.79
	30-Dec-10		6.68	11.53
	8-Jun-11		7.64	10.57
	15-Dec-11		8.45	9.76
	28-Mar-12		6.77	11.44
	13-Sep-12		8.63	9.58
	5-Apr-13		7.45	10.76
MW-6	13-Jan-09	19.46	9.59	9.87
	28-Apr-09		9.65	9.81
	6-Nov-09		9.60	9.86
	28-Jun-10		9.54	9.92
	30-Dec-10		7.80	11.66
	8-Jun-11		8.74	10.72
	15-Dec-11		9.64	9.82
	28-Mar-12		7.77	11.69
	13-Sep-12		9.82	9.64
	5-Apr-13		8.69	10.77
MW-7	13-Jan-09	19.44	9.66	9.78
	28-Apr-09		9.67	9.77
	6-Nov-09		9.64	9.80
	28-Jun-10		NM	NM
	30-Dec-10		7.89	11.55
	8-Jun-11		8.79	10.65
	15-Dec-11		9.64	9.80
	28-Mar-12		7.81	11.63
	13-Sep-12		9.80	9.64
	5-Apr-13		8.70	10.74
MW-8	28-Jun-10	18.27	8.07	10.20
	30-Dec-10		5.92	12.35
	8-Jun-11		7.30	10.97
	15-Dec-11		7.86	10.41
	28-Mar-12		6.09	12.18
	13-Sep-12		8.10	10.17
	5-Apr-13		NA	--
MW-9	5-Apr-13	18.53	8.20	10.33
MW-10	5-Apr-13	18.12	7.34	10.78
MW-11	5-Apr-13	18.32	7.53	10.79

Table 1
Current and Historical Groundwater Elevations
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Well Identification	Date Collected	Top-of-Casing Elevation [1]	Depth to Groundwater [2]	Groundwater Elevation [1]
AS-1S	13-Jan-09	19.38	9.45	9.93
	28-Apr-09		9.67	9.71
	6-Nov-09		9.63	9.75
	28-Jun-10		9.90	9.48
	30-Dec-10		7.65	11.73
	8-Jun-11		8.65	10.73
	15-Dec-11		9.01	10.37
	28-Mar-12		7.68	11.70
	13-Sep-12		8.89	10.49
	5-Apr-13		8.50	10.88
ASMW2S	13-Jan-09	19.38	9.51	9.87
	28-Apr-09		9.55	9.83
	6-Nov-09		9.53	9.85
	28-Jun-10		10.30	9.08
	30-Dec-10		7.73	11.65
	8-Jun-11		8.70	10.68
	15-Dec-11		9.51	9.87
	28-Mar-12		7.67	11.71
	5-Apr-13		8.47	10.91
AS-1D	13-Jan-09	19.31	9.42	9.89
	28-Apr-09		9.48	9.83
	6-Nov-09		9.50	9.81
	28-Jun-10		9.90	9.41
	30-Dec-10		7.65	11.66
	8-Jun-11		8.60	10.71
	15-Dec-11		9.47	9.84
	28-Mar-12		7.66	11.65
	13-Sep-12		9.65	9.66
	5-Apr-13		8.40	10.91
ASMW-2D	13-Jan-09	19.52	9.65	9.87
	28-Apr-09		9.69	9.83
	6-Nov-09		9.70	9.82
	28-Jun-10		9.70	9.82
	30-Dec-10		7.88	11.64
	8-Jun-11		8.85	10.67
	15-Dec-11		9.65	9.87
	28-Mar-12		7.86	11.66
	5-Apr-13		8.66	10.86
E-1	15-Dec-11	19.35	9.43	9.92
	28-Mar-12		6.82	12.53
	13-Sep-12		9.57	9.78
	5-Apr-13		8.52	10.83
E-2	30-Dec-10	19.56	7.95	11.61
	8-Jun-11		8.91	10.65
	15-Dec-11		9.70	9.86
	28-Mar-12		7.93	11.63
	30-Jun-10			19.56
	13-Sep-12		9.90	9.66
	5-Apr-13		8.81	10.75

Table 1
Current and Historical Groundwater Elevations
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Well Identification	Date Collected	Top-of-Casing Elevation [1]	Depth to Groundwater [2]	Groundwater Elevation [1]
E-3	15-Dec-11	19.52	9.72	9.80
	28-Mar-12		7.84	11.68
	13-Sep-12		10.10	9.42
	5-Apr-13		8.67	10.85
E-4	15-Dec-11	19.52	9.60	9.92
	28-Mar-12		7.80	11.72
	13-Sep-12		9.71	9.81
	5-Apr-13		8.78	10.74
E-5	15-Dec-11	19.53	9.69	9.84
	28-Mar-12		7.89	11.64
	13-Sep-12		9.90	9.63
	5-Apr-13		8.61	10.92
E-6	15-Dec-11	19.46	9.61	9.85
	28-Mar-12		7.81	11.65
	13-Sep-12		9.20	10.26
	5-Apr-13		9.00	10.46
E-7	30-Dec-10	19.59	7.95	11.64
	8-Jun-11		8.89	10.70
	15-Dec-11		9.72	9.87
	28-Mar-12		7.94	11.65
	13-Sep-12		10.00	9.59
	5-Apr-13		8.75	10.84
E-8	30-Dec-10	19.59	7.96	11.63
	8-Jun-11		8.88	10.71
	15-Dec-11		9.73	9.86
	28-Mar-12		7.93	11.66
	13-Sep-12		9.90	9.69
	5-Apr-13		8.70	10.89
E-9	15-Dec-11	19.49	9.63	9.86
	28-Mar-12		7.84	11.65
	13-Sep-12		10.07	9.42
	5-Apr-13		9.20	10.29
E-10	15-Dec-11	19.3	9.44	9.86
	28-Mar-12		7.64	11.66
	13-Sep-12		N/A	--
	5-Apr-13		N/A	--
E-11	15-Dec-11	19.19	9.28	9.91
	28-Mar-12		7.45	11.74
	13-Sep-12		10.05	9.14
	5-Apr-13		8.29	10.90
E-12	15-Dec-11	18.89	8.89	10.00
	28-Mar-12		7.05	11.84
	13-Sep-12		9.08	9.81
	5-Apr-13		8.02	10.87

Notes:

[1] Top-of-casing and groundwater elevation in North America Vertical Datum 1988; wells re-surveyed by Tronoff Assocaites Land Surveying on February 2, 2009.

[2] Depth to water measured in feet below top of casing.

N/A = Not Available

Table 2
Summary of Soil Analytical Results
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Sample ID	Location ID	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-MRO	Benzene	Ethylbenzene	Toluene	Xylenes	TBA	MTBE	DIPE	TAME	Ethyl t-butyl ether
		(feet bgs)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
MW9-2.5	MW-9	2.5	21-Mar-13	<0.18	**240**	**870**	<0.0036	<0.0036	<0.0036	<0.0071	<0.0071	<0.0036	<0.0036	<0.0036	<0.0036
MW9-4.5	MW-9	4.5	21-Mar-13	<0.23	**2.1**	<49	<0.0046	<0.0046	<0.0046	<0.0091	<0.0091	<0.0046	<0.0046	<0.0046	<0.0046
MW9-9	MW-9	9.0	21-Mar-13	<0.19	**4.0**	<49	<0.0038	<0.0038	<0.0038	<0.0076	<0.0076	<0.0038	<0.0038	<0.0038	<0.0038
MW10-2.5	MW-10	2.5	21-Mar-13	**140**	**4,600**	**8,800**	<0.35	<0.35	<0.35	<0.69	<0.69	<0.35	<0.35	<0.35	<0.35
MW10-5	MW-10	5.0	21-Mar-13	<0.20	**9.9**	<50	<0.004	<0.004	<0.004	<0.0081	<0.0081	<0.004	<0.004	<0.004	<0.004
MW10-12.5	MW-10	12.5	21-Mar-13	<0.20	**1.5**	<50	<0.0039	<0.0039	<0.0039	<0.0078	<0.0078	<0.0039	<0.0039	<0.0039	<0.0039
MW11-2.5	MW-11	2.5	21-Mar-13	**0.71**	**880**	**2,100**	<0.0044	<0.0044	<0.0044	**0.046**	<0.0087	<0.0044	<0.0044	<0.0044	<0.0044
MW11-5	MW-11	5.0	21-Mar-13	**2.5**	**780**	**1,000**	<0.0033	<0.0033	<0.0033	<0.0065	<0.0065	<0.0033	<0.0033	<0.0033	<0.0033
MW11-12.5	MW-11	12.5	21-Mar-13	<0.20	**2.7**	<49	<0.0041	<0.0041	<0.0041	<0.0082	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041
SV-1-2.5	SV-1	2.5	22-Mar-13	<0.20	**10**	<49	<0.0039	<0.0039	<0.0039	<0.0078	<0.0078	<0.0039	<0.0039	<0.0039	<0.0039
SV-1-5	SV-1	5.0	22-Mar-13	**4.8**	**950**	**2,000**	<0.0041	<0.0041	<0.0041	**0.012**	**0.012**	<0.0041	<0.0041	<0.0041	<0.0041
SV-1-9	SV-1	9.0	22-Mar-13	<20	**1,200**	**2,300**	<0.0041	<0.0041	<0.0041	<0.0081	<0.0081	<0.0041	<0.0041	<0.0041	<0.0041
SV-2-2.5	SV-2	2.5	22-Mar-13	<0.23	**1.8**	<50	<0.0045	<0.0045	<0.0045	<0.0091	<0.0091	<0.0045	<0.0045	<0.0045	<0.0045
SV-2-5	SV-2	5.0	22-Mar-13	<0.22	**1.9**	<49	<0.0045	<0.0045	<0.0045	<0.0089	<0.0089	<0.0045	<0.0045	<0.0045	<0.0045
SV-2-10	SV-2	10.0	22-Mar-13	**21**	**8.0**	<50	<0.38	<0.38	<0.38	<0.77	<0.77	<0.38	<0.38	<0.38	<0.38
SV-3-3	SV-3	3.0	22-Mar-13	**1.9**	**140**	**280**	**0.012**	<0.0047	<0.0047	<0.0094	<0.0094	<0.0047	<0.0047	<0.0047	<0.0047
SV-3-5	SV-3	5.0	22-Mar-13	**2.9**	<1.0	<50	**0.037**	<0.0042	<0.0042	<0.0084	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042
SV-3-10	SV-3	10.0	22-Mar-13	**130**	**12**	<50	<0.4	**0.48**	<0.4	<0.79	<0.79	<0.4	<0.4	<0.4	<0.4
SV-4-2.5	SV-4	2.5	22-Mar-13	<0.31	**8.2**	**56**	<0.0061	<0.0061	<0.0061	<0.012	<0.012	<0.0061	<0.0061	<0.0061	<0.0061
SV-4-5.5	SV-4	5.5	22-Mar-13	<20	**3.4**	<50	**1.4**	**0.061**	**0.011**	**0.077**	<0.0085	<0.0043	<0.0043	<0.0043	<0.0043
SV-4-8	SV-4	8.0	22-Mar-13	<23	**3.6**	<50	**0.9**	**0.072**	<0.0046	**0.020**	**0.011**	<0.0046	<0.0046	<0.0046	<0.0046
SV-5-3	SV-5	3.0	22-Mar-13	**0.64**	**100**	**160**	<0.0044	<0.0044	<0.0044	<0.0088	<0.0088	<0.0044	<0.0044	<0.0044	<0.0044
SV-5-5	SV-5	5.0	22-Mar-13	**59**	**3.8**	<50	**1.9**	**0.64**	**0.012**	<0.84	**0.01**	<0.0041	<0.0041	<0.0041	<0.0041
SV-5-9	SV-5	9.0	22-Mar-13	**640**	**17**	<50	**6.6**	**4.4**	**2.4**	**8.4**	<0.8	<0.4	<0.4	<0.4	<0.4
SV-6-3	SV-6	3.0	22-Mar-13	<23	**22**	**110**	<0.45	<0.45	<0.45	**2.4**	**0.015**	<0.0045	<0.0045	<0.0045	<0.0045
SV-6-5.5	SV-6	5.5	22-Mar-13	<20	**2.6**	<50	**0.21**	**0.45**	<0.0046	**2.0**	**0.024**	<0.0046	<0.0046	<0.0046	<0.0046
SV-6-9	SV-6	9.0	22-Mar-13	**920**	**75**	<50	<4.0	**20**	<4.0	**84**	<8.1	<4.0	<4.0	<4.0	<4.0
SV-7-3	SV-7	3.0	22-Mar-13	<0.21	**5.3**	<49	<0.0041	<0.0041	<0.0041	<0.0083	<0.0083	<0.0041	<0.0041	<0.0041	<0.0041
SV-7-5.5	SV-7	5.5	22-Mar-13	<0.23	**1.1**	<50	<0.0043	<0.0047	<0.0043	<0.0094	<0.0086	<0.0043	<0.0043	<0.0043	<0.0043
SV-7-9	SV-7	9.0	22-Mar-13	<0.19	**2.2**	<49	<0.004	<0.0037	<0.004	<0.0075	<0.0081	<0.004	<0.004	<0.004	<0.004
SV-8-3	SV-8	3.0	22-Mar-13	<0.20	**21**	**84**	<0.0043	<0.0041	<0.0043	<0.0082	<0.0086	<0.0043	<0.0043	<0.0043	<0.0043
SV-8-5.5	SV-8	5.5	22-Mar-13	<0.20	**4.6**	<50	<0.0042	<0.0042	<0.0042	<0.0082	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042
SV-8-9	SV-8	9.0	22-Mar-13	<0.20	**3.0**	<50	<0.004	<0.004	<0.004	<0.0078	<0.0081	<0.004	<0.004	<0.004	<0.004

Notes:
bgs = below ground surface
TPH-GRO = Total petroleum hydrocabons-gasoline range organics (C5 - C12)
TPH-DRO = Total petroleum hydrocabons-diesel range organics (C10 - C28)
TPH-MRO = Total petroleum hydrocabons-motor oil range organics (C24 - C36)
TBA = Tert butyl alcohol
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ehter
TAME = Tert-amyl methyl ether
mg/kg = milligram per kilogram
<0.0036 = Not detected at a concentration greater than the reporting limit
Bold = Constituent was detected above laboratory reporting limit

Table 3
Summary of Soil Vapor Analytical Results
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Sample ID	Sample Date	Sample Depth	TPH-GRO	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylene	Naphthalene	MTBE	1,1-DFA[1]	Methane	Oxygen	Carbon Dioxide	Nitrogen
		(feet bgs)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(ppmV)	(%)	(%)	(%)
Analytical Method			EPA Method 8260B									GC/TCD			
SV-1	26-Mar-13	5.5	**340,000**	**490**	<200	<100	<200	<100	<70	<100	<10,000	<1,000	**2.8**	**11**	**78**
SV-2	26-Mar-13	5.5	**1,500,000**	**200**	<200	<100	<200	<100	<70	<100	<10,000	<1,000	**12**	**3.5**	**79**
SV-2 (dup)	26-Mar-13	5.5	**1,500,000**	**240**	<200	<100	<200	<100	<70	<100	<10,000	<1,000	**11**	**3.6**	**79**
SV-3	26-Mar-13	6.0	**2,100,000**	**9,500**	<200	<100	<200	<100	<70	<100	<10,000	<1,000	**10**	<1.0	**70**
SV-4	26-Mar-13	5.5	**3,400,000**	**2,400**	<200	**140**	**640**	**130**	<70	<100	<10,000	<1,000	**8.1**	**5.4**	**63**
SV-5	26-Mar-13	5.5	**20,000,000**	**560,000**	**4,500**	**45,000**	**13,000**	<100	<70	<100	<10,000	**10,000**	**7.1**	**2.8**	**64**
SV-6	26-Mar-13	5.5	**1,000,000**	**23,000**	<200	**5,200**	**20,000**	**220**	<70	<100	<10,000	<1,000	**10**	**6.6**	**86**
SV-7	26-Mar-13	5.5	<10,000	<80	<200	<100	<200	<100	<70	<100	<10,000	<1,000	**20**	<1.0	**76**
SV-8	26-Mar-13	5.5	**57,000**	**110**	<200	<100	<200	<100	<70	<100	<10,000	<1,000	**19**	**1.3**	**77**

Notes:
bgs = below ground surface
TPH-GRO = Total petroleum hydrocabons-gasoline range organics
MTBE = Methyl tert-butyl ether
µg/m^3 = micrograms per cubic meter.
ppmV = parts per million by volume
% = percent by volume
GC/TCD = gas chromatography/thermal conductivity detector
dup = duplicate sample
<200 = Not detected at a concentration greater than the reporting limit
Bold = Constituent was detected above laboratory reporting limit.
[1] = 1,1-difluoroethane (1,1-DFA) was used as a leak detection compound

Table 4
Summary of Analytical Results for Groundwater - Quarter 1, 2013
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	TPHd	TPHmo	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	5-Apr-13	<97	**323**	<50	<1.0	<1.0	<1.0	<2.0	<1.0
MW-2	5-Apr-13	<95	**434**	42.0	<1.0	<1.0	<1.0	<2.0	0.35
MW-3	5-Apr-13	**1,960**	<950	**14,200**	**1,030**	**547**	**152**	**374**	<20
MW-3 (D)	5-Apr-13	**2,210**	<1,900	**9,970**	**835**	**454**	**142**	**363**	<10
MW-4	5-Apr-13	<95	<190	97.9	**11**	0.57 J	1.3	0.98 J	<1.0
MW-5	5-Apr-13	<96	**1,220**	<50	<1.0	<1.0	<1.0	<2.0	<1.0
MW-6	5-Apr-13	**350**	<190	**5,090**	**750**	**67.1**	**57.3**	**127**	<10
MW-7	5-Apr-13	<100	<200	<50	<1.0	<1.0	<1.0	<2.0	0.58
MW-9	5-Apr-13	<110	<220	<50	<1.0	<1.0	<1.0	<2.0	1.1
MW-10	5-Apr-13	<110	**690**	<50	<1.0	<1.0	<1.0	<2.0	0.20
MW-11	5-Apr-13	<94	**718**	<50	<1.0	<1.0	<1.0	<2.0	<1.0
AS-1D	5-Apr-13	<94	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0
E-2	5-Apr-13	<470	**5,100**	<50	<1.0	<1.0	<1.0	<2.0	<1.0
E-3	5-Apr-13	<24,000	**357,000**	**161**	1.0	<1.0	<1.0	<2.0	0.43 J
E-6	5-Apr-13	<480	**3,210**	**529**	**2.2**	<1.0	4.3	<2.0	0.69
E-7	5-Apr-13	75.1	<190	**1,060**	**125**	20.9	17.4	**28.7**	3.3
E-8	5-Apr-13	**1,420**	**1,010**	**4,750**	**707**	**61**	**118**	**119**	<5.0
E-12	5-Apr-13	62.4	<190	**496**	**64.1**	3.3	8.1	3.0	<1.0

Notes:

bgs = below ground surface

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPH-GRO = total petroleum hydrocarbons-gasoliine range organics

D = duplicate sample

<97 = Not detected at a concentration greater than the reporting limit

Bold = Constituent was detected above laboratory reporting limit

J = Estimated value above method detection limit but below laboratory reporting limit.

Table 5
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Depth	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Fuel Additives
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LFR Area 1 - Southwestern Corner of the Site, west of the "workshop building"											
MW-2	16-Nov-92	5.25-20.25	<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	9-Mar-93		**430**	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	21-Jul-93		<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	29-Jan-94		<50	NA	<50	<2.0	<2.0	<2.0	<2.0	NA	NA
	26-May-94		<50	NA	<50	**2.3**	0.8	<0.5	<0.5	NA	NA
	24-Aug-94		<50	NA	<50	**3.1**	1.4	0.5	0.6	NA	NA
	22-Nov-94		<50	NA	<50	**3.4**	1.8	<0.5	0.5	NA	NA
	8-Feb-95		<50	NA	<50	**4.5**	1.3	<0.5	0.5	NA	NA
	31-May-95		<50	NA	NA	NA	NA	NA	NA	NA	NA
	8-Aug-95		<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	29-Nov-95		<50	NA	NA	NA	NA	NA	NA	NA	NA
	29-Feb-96		<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	23-May-96		<50	NA	NA	NA	NA	NA	NA	NA	NA
	4-Nov-96		<50	NA	NA	NA	NA	NA	NA	NA	ND
	13-Nov-03		NA	NA	<50	<0.5	<0.5	<0.5	<2.0	NA	ND
	17-Jun-08		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	1.1	ND
	6-Nov-09		**360**	NA	<50	<0.5	<0.5	<0.5	<1.0	0.63	ND
	28-Jun-10		53.4J	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	30-Dec-10		<280	**3,240**	29.2 J [a]	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	8-Jun-11		NA	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	15-Dec-11		95/<94*	**422/311***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	13-Sep-12		**301**	<190	<50	<1.0	<1.0	<1.0	<2.0	0.20	ND
	5-Apr-13		<95	**434**	42	<1.0	<1.0	<1.0	<2.0	0.35	ND
LFR Area 2 - Area South of the Warehouse Storage Area Building Adjacent to the Southern Property Boundary											
MW-1	15-Nov-92	5.25-20.25	<50	NA	NA	NA	NA	NA	NA	NA	NA
	9-Mar-93		**140**	NA	NA	NA	NA	NA	NA	NA	NA
	21-Jul-93		<50	NA	NA	NA	NA	NA	NA	NA	NA
	29-Jan-94		<50	NA	NA	NA	NA	NA	NA	NA	NA
	26-May-94		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	24-Aug-94		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	22-Nov-94		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	8-Feb-95		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	31-May-95		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	23-May-96		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	27-Oct-00		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	14-Nov-07		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<2.0	NA
	17-Jun-08		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	0.67	NA
	6-Nov-09		<51	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	ND
	28-Jun-10		56.8J	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	30-Dec-10		<94	**114 J**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	16-Dec-11		<94*	**522***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	28-Mar-12		<94*	<190*	NA	NA	NA	NA	NA	NA	NA
	13-Sep-12		**187**	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	5-Apr-13		<97	**323**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
LFR Area 4 - Former UST near Groundwater Monitoring Well MW-3											
B-1	3-Feb-97	15-20	NA	NA	**31,000**	**7,100**	**4,100**	**520**	**1,400**	NA	NA
B-2	3-Feb-97	15-20	NA	NA	**41,000**	**14,000**	**2,600**	**740**	**1,700**	NA	NA
B-3	3-Feb-97	15-20	NA	NA	**1,400**	**310**	9.9	27	56	NA	NA
B-4	3-Feb-97	15-20	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-3	16-Nov-92	5.25-20.25	<50	NA	**40,000**	**2,900**	**6,100**	**550**	**1,700**	NA	NA
	9-Mar-93		**290**	NA	**12,000**	**1,000**	**300**	**110**	**170**	NA	NA
	21-Jul-93		<50	NA	**3,400**	**420**	**63**	**36**	**37**	NA	NA

Table 5
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Depth	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Fuel Additives
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	29-Jan-94		<50	NA	**5,600**	**910**	**220**	**47**	**36**	NA	NA
continued	26-May-94		<50	NA	**5,200**	**890**	**180**	**45**	**43**	NA	NA
	24-Aug-94		<50	NA	**5,200**	**580**	**76**	29	**22**	NA	NA
	22-Nov-94		<50	NA	**2,200**	**670**	**130**	**31**	**28**	NA	NA
	8-Feb-95		<50	NA	**2,900**	**780**	**120**	**31**	**33**	NA	NA
	31-May-95		NA	NA	**9,100**	**2,800**	**160**	**91**	**72**	NA	NA
D	31-May-95		NA	NA	**5,300**	**1,300**	**170**	**37**	**44**	NA	NA
MW-3	28-Aug-95		NA	NA	**1,400**	<0.5	<0.5	1.7	8.9	NA	NA
D	28-Aug-95		NA	NA	**4,800**	**2,500**	**150**	**53**	**44**	NA	NA
	29-Nov-95		NA	NA	**3,000**	**780**	**43**	**32**	**32**	NA	NA
D	29-Nov-95		NA	NA	**2,400**	**830**	38	21	16	NA	NA
	29-Feb-96		NA	NA	**3,800**	**1,200**	**130**	**36**	**35**	NA	NA
D	29-Feb-96		NA	NA	**8,000**	**3,400**	**430**	**100**	**99**	NA	NA
	23-May-96		NA	NA	**6,900**	**3,300**	**340**	**71**	**74**	NA	NA
D	23-May-96		NA	NA	**4,300**	**3,200**	**350**	**72**	**74**	NA	NA
	4-Nov-96		NA	NA	**4,900**	**2,100**	**110**	**70**	**44**	NA	NA
D	4-Nov-96		NA	NA	**4,500**	**2,100**	**130**	**61**	**39**	NA	NA
	13-May-97		NA	NA	**10,000**	**4,800**	**530**	**100**	**92**	<100	NA
	26-Jan-98		NA	NA	**12,000**	**5,000**	**250**	**91**	**100**	NA	NA
	27-Oct-00		NA	NA	**19,000**	**9,000**	**1,000**	**250**	**130**	NA	NA
	3-Nov-03		NA	NA	**13,000**	**3,900**	**370**	**300**	**130**	<40	NA
	17-Jun-08		NA	NA	**13,000**	**4,400**	**600**	**300**	**150**	<100	NA
	6-Nov-09		**710**	NA	**13,000**	**3,400**	**400**	**310**	**220**	<2.5	**4.1** (1,2-DCA)
	28-Jun-10		**699**	NA	**22,200**	**1,740**	**2,100**	**318**	**1,060**	<50	ND
D	28-Jun-10		**722**	NA	**31,000**	**1,560**	**2,210**	**380**	**1,240**	<50	ND
	10-Aug-10		NA	NA	**12,000**	**1,400**	**1,200**	**190**	**540**	<13	ND
	30-Dec-10		**36,500**	**3,900**	**22,200**	**1,730**	**2,030**	**406**	**1,530**	<50	ND
	8-Jun-11		NA	NA	**20,400**	**2,180**	**2,040**	**273**	**765**	<25	ND
	16-Dec-11		**1,710/832***	**312 J/<190***	**9,000**	**1,220**	**1,290**	**163**	**518**	<25	ND
D	16-Dec-11		**1,530/2,530***	<570/<750*	**13,200**	**1,590**	**1,680**	**207**	**671**	<50	ND
	13-Sep-12		**5,040**	**4,710**	**12,800**	**677**	**607**	**161**	**445**	<25	ND
	5-Apr-13		**1,960**	<950	**14,200**	**1,030**	**547**	**152**	**374**	<20	ND
D	5-Apr-13		**2,210**	<1,900	**9,970**	**835**	**454**	**142**	**363**	<10	**2.9 J** (1,2-DCA)
MW-5	24-Aug-94	5.25-20.25	**130**	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
D	22-Nov-94		<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	8-Feb-95		<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	31-May-95		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	8-Aug-95		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	29-Feb-96		NA	NA	<50	0.6	<0.5	<0.5	<0.5	NA	NA
	13-May-97		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	27-Oct-00		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	13-Nov-03		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<2.0	NA
	17-Jun-08		NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	6-Nov-09		**1,300**	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	ND
	28-Jun-10		**289**	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	30-Dec-10		<94	**808**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	16-Dec-11		<94/<95*	**681/547***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	28-Mar-12		**196***	**212***	NA	NA	NA	NA	NA	NA	NA
	13-Sep-12		**376**	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	5-Apr-13		<96	**1,220**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-6	14-Jan-09	10-17	NA	NA	**740**	**66**	**48**	6.3	**23**	1.2	**17** (1,2-DCA)
	6-Nov-09		**1,200**	NA	**4,500**	**1,300**	**270**	**110**	**44**	<2.5	**39** (1,2-DCA)
	28-Jun-10		**474**	NA	**3,810**	**484**	**284**	**78.7**	**233**	<10	**20.8** (1,2-DCA)

Table 5
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Depth	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Fuel Additives
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-6	10-Aug-10		NA	NA	**4,600**	**800**	**160**	**160**	**210**	<6.3	**12** (1,2-DCA)
continued	30-Dec-10		**2,470**	<380	**9,720**	**1,130**	**469**	**364**	**1,360**	<20	**20.7** (1,2-DCA)
	8-Jun-11		NA	NA	**8,140**	**1,460**	**377**	**206**	**515**	<20	**15.4** (1,2-DCA)
	16-Dec-11		**2,200/874***	**2,350/1,670**	**5,920**	**1,500**	**74.9**	**135**	**254**	<25	**12.4** (1,2-DCA)
	28-Mar-12		**380***	<190*	**2,180**	**347**	20.5	**36**	**56**	<5.0	**6.8** (1,2-DCA)
	13-Sep-12		**930**	<190	**3,550**	**557**	**45**	**59.9**	**126**	<10	**5.8** (1,2-DCA)
	5-Apr-13		**350**	<190	**5,090**	**750**	**67.1**	**57.3**	**127**	<10	**6.4** (1,2-DCA)
MW-9	5-Apr-13	12-17	<110	<220	<50	<1.0	<1.0	<1.0	<2.0	1.1	**0.67** (1,2-DCA)
MW-10	5-Apr-13	10-20	<110	**690**	<50	<1.0	<1.0	<1.0	<2.0	0.20	0.26 (1,2-DCA)
MW-11	5-Apr-13	10-20	<94	**718**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
AS-1S	13-Jan-09	14-17	NA	NA	**41,000**	**4,100**	**2,700**	**510**	**1,000**	<25	ND
	6-Nov-09		**1,300**	NA	**3,800**	**950**	7.3	**76**	**42**	<0.5	**3.1** (1,2-DCA)
	28-Jun-10		**214**	NA	**1,630**	**202**	26.2	9.1	**25.4**	2.1	**3.1** (1,2-DCA)
	10-Aug-10		NA	NA	**1,200**	**370**	**44**	**34**		<2.5	**2.6** (1,2 DCA)
	30-Dec-10		**2,790**	<570	**30,000**	**4,530**	**4,040**	**538**	**1,100**	<100	ND
	15-Dec-11		**1,340***	**582***	**7,640**	**772**	**788**	**290**	**590**	<20	ND
ASMW-2S	13-Jan-09	10-17	NA	NA	**9,100**	**2,800**	**430**	**140**	**230**	<10	**25** (1,2-DCA)
	6-Nov-09		**2,400**	NA	**18,000**	**4,700**	**540**	**330**	**530**	<2.5	**50** (1,2-DCA), **46** (TBA)
	28-Jun-10		**479**	NA	**8,330**	**416**	**434**	**151**	**583**	<33	ND
	10-Aug-10		NA	NA	**3,200**	**420**	**69**	**61**	**130**	<3.1	**3.4** (1,2 DCA)
	30-Dec-10		**3,440**	<2,000	**5,300**	**447**	**80.1**	**95.0**	**181**	ND<10	**5.7** (1,2 DCA)
	15-Dec-11		**998***	**148***	**2,250**	**253**	**19.8**	**49.9**	**77.4**	<10	ND
MW-7	14-Jan-09	20-28	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	1.1	ND
	6-Nov-09		<52	NA	<50	<0.5	<0.5	<0.5	<1.0	1.3	ND
	30-Dec-10		<96	<190	<50	<1.0	<1.0	<1.0	<2.0	1.1	ND
	8-Jun-11		NA	NA	<50	<1.0	<1.0	<1.0	<2.0	1.0	ND
	16-Dec-11		<94*	832*	<50	0.67	<1.0	0.35 J	<2.0	0.88 J	ND
D	16-Dec-11		<94*	**1,730***	<50	0.62 J	<1.0	0.33 J	<2.0	0.91 J	ND
	28-Mar-12		<94*	<190*	NA	NA	NA	NA	NA	NA	NA
	13-Sep-12		<190	**3,510**	<50	<1.0	<1.0	<1.0	<2.0	0.41	ND
	5-Apr-13		<100	<200	<50	<1.0	<1.0	<1.0	<2.0	0.58	ND
MW-8	28-Jun-10	8-18	<100	NA	<50	0.81J	1.3	0.41J	1.6 J	0.62J	ND
	30-Dec-10		<95	<190	<50	<1.0	<1.0	<1.0	<2.0	0.53J	ND
	8-Jun-11		NA	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	16-Dec-11		<95*	155 J*	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	13-Sep-12		304	<190	<50	0.37	0.28	<1.0	<2.0	0.29	ND
AS-1D	13-Jan-09	31-34	NA	NA	<50	0.69	0.54	<0.5	<0.5	<0.5	ND
	6-Nov-09		<53	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	ND
	28-Jun-10		<94	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	30-Dec-10		<94	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	15-Dec-11		86.2 J*	<190*	27.6	1.7	3.1	0.54	2.3	<1.0	ND
	13-Sep-12		**161**	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	5-Apr-13		<94	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
ASMW-2D	13-Jan-09	24-34	NA	NA	<50	0.80	0.78	<0.5	<0.5	0.56	ND
	6-Nov-09		<51	NA	<50	<0.5	<0.5	<0.5	<1.0	0.58	ND
	28-Jun-10		<94	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	30-Dec-10		<100	<200	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
	15-Dec-11		96.1*	<190*	<50	0.76 J	0.99	<1.0	1.1	<1.0	ND
E1	16-Jun-10	8-18	NA	NA	**36,000**	**3,200**	**2,300**	**750**	**2,170**	<25	<25
	30-Jun-10		NA	NA	**124**	**11.7**	**9.4**	1.5	7.7	<1	0.31 (1,2 DCA)
	16-Dec-11		**323***	<190*	**1,700**	**55.5**	22.1	16.1	**27.6**	<5.0	ND

Table 5
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Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Depth	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Fuel Additives
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
E2	16-Jun-10	8-18	NA	NA	72	**5.3**	5.9	0.89	4.9	2.1	**0.68** (1,2 DCA)
	30-Jun-10		NA	NA	<50	<1.0	<1.0	<1.0	<2.0	2.0	**0.5** (1,2 DCA)
	30-Dec-10		<190	**3,740**	<50	<1.0	<1.0	<1.0	<2.0	1.8	0.41 (1,2 DCA)
	8-Jun-11		NA	NA	<50	<1.0	<1.0	<1.0	<2.0	1.7	0.45 (1,2-DCA)
	15-Dec-11		<95/<96*	**1,570/1,270***	<50	<1.0	<1.0	<1.0	<2.0	1.2	ND
	28-Mar-12		**245***	**387***	NA	NA	NA	NA	NA	NA	NA
	13-Sep-12		<190	**2,990**	<50	<1.0	<1.0	<1.0	<2.0	0.57 J	**0.36 J** (1,2-DCA)
	5-Apr-13		<470	**5,100**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
E3	16-Dec-11		**13,900***	**15,600***	**185**	**1.2**	<1.0	<1.0	<2.0	0.74 J	**1.0** (1,2-DCA)
	28-Mar-12		**1,060***	**1,860***	**151**	**1.4**	<1.0	<1.0	<2.0	0.53 J	**0.76 J** (1,2-DCA)
	13-Sep-12		**62,500**	**93,700**	46.8	0.56	<1.0	<1.0	<2.0	0.55 J	**0.99 J** (1,2-DCA)
	5-Apr-13		<24,000	**357,000**	**161**	**1.0**	<1.0	<1.0	<2.0	0.43 J	**0.71 J** (1,2-DCA)
E4	16-Dec-11		**264***	**447***	**1,580**	**240**	9.9	18.3	5.8 J	<5.0	**2.7** (1,2-DCA)
E5	15-Dec-11		**11,100***	**11,500***	27.1 J	<1.0	<1.0	<1.0	<2.0	0.83 J	ND
E6	15-Dec-11		**1,460***	**931***	**617**	**17.6**	<2.0	3.3	<4.0	<2.0	ND
	28-Mar-12		93.9 J*	**191***	**273**	**4.4**	<1.0	2.8	<2.0	0.78 J	ND
	13-Sep-12		<190	**2,440**	**427**	**2.8**	<1.0	2.3	<2.0	0.85	ND
	5-Apr-13		<480	**3,210**	**529**	**2.2**	<1.0	4.3	<2.0	0.69	ND
E7	16-Jun-10	8-18	NA	NA	**780**	**100**	**73**	20	**80**	**5.2**	**1.9** (1,2 DCA)
	30-Jun-10		NA	NA	**3,460**	**207**	**258**	<25	**360**	3.8	**2.5** (1,2 DCA)
	30-Dec-10		**1,360**	<190	**3,380**	**339**	20.0	**83.3**	**23.9**	**5.4**	**3.5** (1,2 DCA)
	8-Jun-11		NA	NA	**1,580**	**143**	17.4	26.9	**21.7**	4.3	**2.2** (1,2-DCA)
	15-Dec-11		**373/287***	**<190/<190***	**1,070**	**144**	29.5	16	**27.2**	4.4	**3.1** (1,2-DCA)
	28-Mar-12		53.8 J*	<190*	**806**	**97**	11.9	12.9	18.4	3.2	**1.6 J** (1,2-DCA)
	13-Sep-12		**214**	<200	**1,790**	**169**	**67.3**	27.8	**82.3**	3.5	**2.6** (1,2-DCA)
	5-Apr-13		75.1	<190	**1,060**	**125**	20.9	17.4	**28.7**	3.3	**1.9 J** (1,2-DCA)
E8	30-Dec-10		**1,220**	<190	**8,930**	**480**	19.1	**164**	**51.8**	<10	**4.8** (1,2-DCA)
	8-Jun-11		NA	NA	**3,520**	**178**	9.6	**55.7**	**49.5**	<5	**2.7** (1,2-DCA)
	15-Dec-11		**508***	<190*	**2,000**	**208**	4	**42.9**	14.0	<5.0	ND
	28-Mar-12		64 J*	<190*	**1,380**	**92**	4	20.3	**26.5**	<4.0	**13 J** (TBA)
	13-Sep-12		**314**	<200	**2,450**	**2.0**	<5.0	<5.0	<10	2.8	ND
	5-Apr-13		**1,420**	**1,010**	**4,750**	**707**	**61**	**118**	**119**	<5.0	**3.6** (1,2-DCA)
E9	15-Dec-11		**7,950***	<190*	**35,100**	**4,810**	**5,710**	**768**	**3,260**	<100	ND
	28-Mar-12		**894***	<190*	**24,200**	**2,440**	**2,550**	**396**	**1,810**	<100	ND
E10	15-Dec-11		**10,400***	<190*	**32,800**	**4,350**	**6,450**	**667**	**2,880**	<100	**37** (1,2-DCA)
	28-Mar-12		**1,630***	<190*	**30,000**	**3,090**	**4,140**	**515**	**2,310**	<100	**20.6 J** (1,2-DCA)
E11	16-Jun-10	8-18	NA	NA	**25,000**	**1,800**	**1,500**	**480**	**980**	<13	<13
	30-Jun-10		NA	NA	**15,300**	**268**	**509**	**473**	**1,140**	<40	<40
	16-Dec-11		**3,920***	<970*	**17,200**	**634**	**916**	**384**	**934**	<50	ND
	28-Mar-12		**960***	<190*	**15,700**	**377**	**544**	**237**	**902**	<50	ND
E12	16-Jun-10	8-18	NA	NA	**4,300**	**190**	15	43	**49**	<2	**2.0** (1,2 DCA)
	30-Jun-10		NA	NA	**1,570**	**130**	6.6	<3	**24.2**	<3	<3
	16-Dec-11		69.9 J*	<190*	**297**	**27.5**	1.1 J	3.2	<4.0	<2.0	ND
	13-Sep-12		88.8	<190	**633**	**50.8**	2.6	7.2	2.7	<1.0	**18.9** (TBA)
	5-Apr-13		62.4	<190	**496**	**64.1**	3.3	8.1	3.0	<1.0	ND

Table 5
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Depth	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Fuel Additives
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LFR Area 5 - Suspected Former UST near Groundwater Monitoring Well MW-4											
MW-4	16-Nov-92	5.25-20.25	<50	NA	**560**	**66**	**73**	16	**130**	NA	NA
D	16-Nov-92		<50	NA	**520**	**63**	**67**	15	**140**	NA	NA
	9-Mar-93		<50	NA	**750**	**67**	12	29	**62**	NA	NA
	21-Jul-93		<50	NA	**250**	**21**	4.2	8.4	11	NA	NA
	29-Jan-94		<50	NA	**180**	**28**	2.2	6.2	10	NA	NA
	26-May-94		NA	NA	**130**	**14**	3.2	6.1	4.7	NA	NA
	24-Aug-94		NA	NA	70	**6.7**	0.9	2.8	2.6	NA	NA
	22-Nov-94		NA	NA	90	**16**	1.7	5.6	3.4	NA	NA
	8-Feb-95		NA	NA	90	**17**	1.3	5.5	3.0	NA	NA
	31-May-95		NA	NA	90	**13**	0.6	2.3	1.2	NA	NA
	8-Aug-95		NA	NA	80	**3.6**	<0.5	1.4	0.6	NA	NA
	29-Nov-95		NA	NA	<50	**4.5**	0.7	1.0	0.7	NA	NA
	29-Feb-96		NA	NA	<50	**7.4**	1.0	3.2	2.4	NA	NA
	23-May-96		NA	NA	80	**11**	2.0	2.3	1.0	NA	NA
	3-Nov-03		<50	NA	<50	**6.3**	0.56	3.4	1.0	<2.0	NA
	18-Jun-08		<50	NA	81	**11**	0.51	4.7	1.6	<0.5	ND
	6-Nov-09		<50	NA	<50	**4.0**	<0.5	1.3	<1.0	<0.5	ND
	28-Jun-10		<100	NA	**186**	**12.3**	0.9	5.9	2.3	<1.0	ND
	30-Dec-10		<94	<190	77.4	**7.4**	<1.0	2.6	0.98	<1.0	ND
	8-Jun-11		NA	NA	94.2	**10.2**	1	3.4	1.60	<1.0	ND
	16-Dec-11		<97*	**130 J***	<50	**2.6**	<1.0	<1.0	<2.0	<1.0	ND
	13-Sep-12		83 J	<190	34.3 J	**5.4**	0.51 J	0.82 J	0.73 J	<1.0	ND
	5-Apr-13		<95	<190	97.9	**11**	0.57 J	1.3	0.98 J	<1.0	ND
ESL's Groundwater *is* current or potential drinking water source			100	100	100	1.0	40	30	20	5.0	0.5 (1,2-DCA), 12 (TBA)

Notes:
bgs = below ground surface
µg/L = micrograms per liter
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
TPHg = total petroleum hydrocarbons as gasoline
MTBE = methyl tert butyl ether
NA = parameter not analyzed
ND = parameter not present above laboratory reporting limits
1,2-DCA = 1,2-dichloroethane
TBA = tertiary butyl alcohol
D = duplicate sample
J = Estimated value above method detection limit but below laboratory reporting limit.
* = TPH Extracable with Silica Gel Cleanup
ESL = San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels Table F-1a and Table F-1b RWQCB February 2013
Bold Font denotes concentration was greater than the ESL.

Table 6
Risk Characterization for the Hypothetical Indoor Commercial/Industrial Worker Receptor
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Inhalation of Benzene and Ethylbenzene Volatilizing from Shallow Soil Gas (5.5 feet bgs) into Indoor Air								
				Noncarcinogenic Effects		Carcinogenic Effects		
Location & Sample ID	**Constituent**	**Exposure Point Concentration ($C_{soil\ vapor}$) (µg/m³)**	**Exposure Point Concentration[1] ($C_{buidling}$) (µg/m³)**	**Inhalation Reference Concentration (RfC) (µg/m³)**	**Hazard Quotient (HQ)[2] (unitless)**	**Inhalation Unit Risk (IUR) (µg/m³)⁻¹**	**Excess Cancer Risk[3] (unitless)**
Building 1 SV-6	**Benzene**	2.30E+04	9.76E-02	3.00E+01	7 E-04	2.90E-05	2 E-07
	Ethylbenzene	5.20E+03	1.58E-02	1.00E+03	4 E-06	2.50E-06	3 E-09
				Total Hazard Index =	**7 E-04**	**Total Excess Cancer Risk =**	**2 E-07**
Building 3 SV-4	**Benzene**	2.40E+03	1.02E-02	3.00E+01	8 E-05	2.90E-05	2 E-08
	Ethylbenzene	1.40E+02	4.26E-04	1.00E+03	1 E-07	2.50E-06	9 E-11
				Total Hazard Index =	**8 E-05**	**Total Excess Cancer Risk =**	**2 E-08**
Outside SV-5	**Benzene**	5.60E+05	2.38E+00	3.00E+01	2 E-02	2.90E-05	6 E-06
	Ethylbenzene	4.50E+04	1.37E-01	1.00E+03	3 E-05	2.50E-06	3 E-08
				Total Hazard Index =	**2 E-02**	**Total Excess Cancer Risk =**	**6 E-06**

Notes:
feet bgs = feet below ground surface.
µg/m³ = micrograms per cubic meter.

[1] Exposure point concentration in indoor air was estimated from CalEPA DTSC J/E modeling as $C_{buildinq}$ (Appendix J).

[2] $$Hazard\ Quotient = \frac{C_{building} \times ET \times EF \times ED}{RfC \times ATn}$$

[3] $$Excess\ Cancer\ Risk = \frac{C_{building} \times ET \times EF \times ED \times URF}{ATc}$$

$C_{building}$ *Chemical concentration in indoor air (µg/m³).*
EF *Exposure frequency (250 days/year).*
ED *Exposure duration (25 years).*
ET *Exposure time (8 hours/day)*
ATn *Averaging time (hours) for noncarcinogenic effects,*
ATn = ED x 365 days/year x 24 hours/day.
ATc *Averaging time (hours) for carcinogenic effects,*
ATc = Lifetime (70 years) x 365 days/year x 24 hours/day.

APPENDIX A

ALAMEDA COUNTY ENVIRONMENTAL HEALTH DRILLING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/18/2013 By jamesy

Permit Numbers: W2013-0206 to W2013-0209
Permits Valid from 03/21/2013 to 03/25/2013

Application Id: 1362689888303
City of Project Site: Oakland
Site Location: 9201 San Leandro St.
Oakland, CA 94603
Project Start Date: 03/21/2013
Completion Date: 03/25/2013
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: The Source Group, Inc. - Paisha Jorgensen
3478 Buskirk Avenue, Suite 100, Pleasant Hill, CA 94523
Phone: 925-944-2856

Property Owner: Harold Vignoles
9201 San Leandro Street, Oakland, CA 94603
Phone: --

Client: David Murray
4600 SE Harney Drive, Porland, OR 97206
Phone: --

Contact: Paisha Jorgensen
Phone: --
Cell: 510-847-9217

Total Due: $1456.00
Receipt Number: WR2013-0100 **Total Amount Paid:** $1456.00
Payer Name : The Source Group, Inc. Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 3 Wells
Driller: Vironex - Lic #: 705927 - Method: hstem **Work Total: $1191.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2013-0206	03/18/2013	06/19/2013	MW-10	8.00 in.	2.00 in.	10.00 ft	20.00 ft
W2013-0207	03/18/2013	06/19/2013	MW-11	8.00 in.	2.00 in.	10.00 ft	20.00 ft
W2013-0208	03/18/2013	06/19/2013	MW-9	8.00 in.	2.00 in.	10.00 ft	20.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie.

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

Well Construction-Vapor monitoring well-Vapor monitoring well - 7 Wells
Driller: Vironex - Lic #: 705927 - Method: DP **Work Total: $265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2013-0209	03/18/2013	06/19/2013	SV-1	1.00 in.	0.75 in.	1.00 ft	5.00 ft
W2013-0209	03/18/2013	06/19/2013	SV-2	1.00 in.	0.75 in.	1.00 ft	5.00 ft
W2013-0209	03/18/2013	06/19/2013	SV-3	1.00 in.	0.75 in.	1.00 ft	5.00 ft
W2013-0209	03/18/2013	06/19/2013	SV-4	1.00 in.	0.75 in.	1.00 ft	5.00 ft
W2013-0209	03/18/2013	06/19/2013	SV-5	1.00 in.	0.75 in.	1.00 ft	5.00 ft
W2013-0209	03/18/2013	06/19/2013	SV-6	1.00 in.	0.75 in.	1.00 ft	5.00 ft
W2013-0209	03/18/2013	06/19/2013	SV-7	1.00 in.	0.75 in.	1.00 ft	5.00 ft

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

5. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

8. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

9. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

11. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.

Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.

APPENDIX B

BORING LOGS

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **MW-9**

PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	In alley between Building 3 and railroad tracks		**Logged By:** A. Tracy/P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6610 DT		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger/Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/21/13 8:00am	**FINISH DATE/TIME:**	3/21/13 12:20pm
FIRST/STATIC WATER LEVEL(BGS):	12.5 feet	**CASING DEPTH(S):**	17 feet
SURFACE/TOC ELEVATION (MSL):	18.84 feet/18.53 feet	**SCREEN INTERVAL(S) (BGS):**	12 - 17 feet
TOTAL BORING DIAMETER/DEPTH:	8 inches/20 feet	**SCREEN SLOT SIZE/TYPE:**	0.020 inches/PVC

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED
8:00				0	SM	SILTY SAND: very dark greyish brown (10YR 3/2), 70% fine to coarse sand, 30% silt, moist, low plasticity, loose
		MW9 -2.5		1		0-5 feet bgs - hand augered, soil logged from cuttings.
	0.0			2	CL	LEAN CLAY: black (10YR 2/1), 100% fines, medium plasticity, moist, soft
		MW9 -4.5		3		
				4		
				5		↓ dark grayish brown (10YR 4/2)
	0.0			6		
				7		
		MW9 -9		8		
				9		
				10		
				11		
	0.0			12		↓ dark grayish brown (10YR 4/2), 80% fines, 10% silt, 10% fine sand
				13		↓ wet
				14		
				15		
				16		↓ 100% fines, moist, firm
				17		
				18		
				19		
8:40	0.0			20		**Bottom of Boring at 20 feet bgs**

Well construction details: neat cement grout; 2-inch, Sch 40 PVC blank casing; bentonite; #2/12 Monterey sand; 2-inch, Sch 40 PVC, 0.020-inch slot screen; bentonite

SGI environmental — THE SOURCE GROUP, INC.

BORING/WELL ID: **MW-10**

PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	In alley between Building 3 and railroad tracks		**Logged By:** A. Tracy/P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6610 DT		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger/Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/21/13 8:40am	**FINISH DATE/TIME:**	3/21/13 10:00am
FIRST/STATIC WATER LEVEL(BGS):	12.5 feet	**CASING DEPTH(S):**	20 feet
SURFACE/TOC ELEVATION (MSL):	18.64 feet/18.12 feet	**SCREEN INTERVAL(S) (BGS):**	10 - 20 feet
TOTAL BORING DIAMETER/DEPTH:	8 inches/20 feet	**SCREEN SLOT SIZE/TYPE:**	0.020 inches/PVC

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED
8:40				0		Asphalt 0 - 6" 0-5 feet bgs - hand augered, soil logged from cuttings.
		MW10		1	SP	POORLY GRADED SAND with GRAVEL: reddish brown (5YR 4/4), 60% fine to coarse sand, 40% fine to coarse gravel, moist, loose
	72.3			2		Very strong odor
		MW10		3	CL	LEAN CLAY: black (5YR 2.5/1), 95% fines, 5% silt, medium plasticity, moist, firm, odor
	1.1			4		
				5		
	0.0			6		very dark gray (5YR 3/1)
				7		
				8		
				9	CL	LEAN CLAY with GRAVEL: very dark gray (5YR 3/1), 75% fines, 25% fine gravel, medium plasticity, firm
				10		
		MW10		11		
	0.0			12	CL	LEAN CLAY: dark grayish brown (10YR 4/2), 80% fines, 10% silt, 10% fine sand, medium plasticity, moist, soft
				13		wet
				14		90% fines, 10% silt, moist, firm
				15		
				16		
				17		
				18		
				19		
10:00	0.0			20		**Bottom of Boring at 20 feet bgs**

Well construction details: neat cement grout; 2-inch, Sch 40 PVC blank casing; bentonite; #2/12 Monterey sand; 2-inch, Sch 40 PVC, 0.020-inch slot screen

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **MW-11**

PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	In alley between Building 3 and railroad tracks		**Logged By:** A. Tracy/P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6610 DT		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger/Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/21/13 12:00	**FINISH DATE/TIME:**	3/21/13 13:50
FIRST/STATIC WATER LEVEL(BGS):	12.5 feet	**CASING DEPTH(S):**	20 feet
SURFACE/TOC ELEVATION (MSL):	18.63 feet/18.32 feet	**SCREEN INTERVAL(S) (BGS):**	10 - 20 feet
TOTAL BORING DIAMETER/DEPTH:	8 inches/20 feet	**SCREEN SLOT SIZE/TYPE:**	0.020 inches/PVC

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
12:00				0		Asphalt 0 - 6" 0-5 feet bgs - hand augered, soil logged from cuttings.	
					SP	POORLY GRADED SAND with GRAVEL: reddish brown (5YR 4/4), 60% fine to coarse sand, 40% fine gravel, dry	
		MW11		1			neat cement grout
	1.7			2		Very strong odor	2-inch, Sch 40 PVC blank casing
				3			
	0.0	MW11		4	CL	LEAN CLAY: black (5YR 2.5/1), 95% fines, 5% silt, medium plasticity, moist, firm, odor	
				5			
	0.0			6		↓ very dark gray (5YR 3/1)	bentonite
				7			
				8			
				9		↓ 90% fines, 10% coarse sand	
				10		↓ dark grayish brown (10YR 4/2), 80% fines, 10% silt, 10% fine sand, soft	
		MW11		11			
	0.0			12		↓ wet	#2/12 Monterey sand
				13		↓ 90% fines, 10% silt, moist, firm	2-inch, Sch 40 PVC, 0.020-inch slot screen
				14			
				15			
				16			
				17			
				18			
				19			
13:50	0.0					↓ 90% fines, 10% fine to coarse sand	
				20		**Bottom of Boring at 20 feet bgs**	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SV-1**

PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	Inside Building 3, near rollup door at south end		**Logged By:** P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6600		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger/Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/22/13 9:25	**FINISH DATE/TIME:**	3/22/13 10:20
FIRST/STATIC WATER LEVEL(BGS):	NA	**TUBING LENGTH:**	7 feet
SURFACE ELEVATION (MSL):	19.70 feet	**INTAKE SCREEN DEPTH (BGS**	5.5 feet
TOTAL BORING DIAMETER/DEPTH:	2 inches/10 feet	**SCREEN LENGTH/TYPE:**	1-inch/stainless steel

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED	Vapor Probe Construction Details
9:25				0		Concrete 0 - 4" 0-5 feet bgs - hand augered, soil logged from cuttings.	
				1	SP	POORLY GRADED SAND with GRAVEL: dark brown (7.5YR 3/4), 70% fine to coarse sand, 30% fine gravel, moist	
		SV-1 -2.5		2			neat cement grout
	7.6			3		↓ very dark grayish brown (10YR 3/2)	0.25-inch Teflon tubing
	12.4	SV-1 -5		4	CL	LEAN CLAY: black (2.5YR 2.5/1), 90% fines, 10% fine sand, medium plasticity, moist, firm, odor	
	13.6			5			dry bentonite
	6.4			6			1-inch stainless steel vapor probe tip
	12.2			7			#2/12 Monterey sand
		SV-1 -9		8		↓ very dark gray (5YR 3/1)	
	15.5			9			hydrated bentonite
10:20	11.0			10		**Bottom of Boring at 10 feet bgs**	
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			

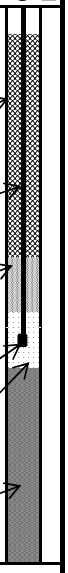
SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SV-2**

PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	Inside Building 3, near rollup door at south end		**Logged By:** P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6600		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger/Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/22/13 9:50	**FINISH DATE/TIME:**	3/22/13 10:50
FIRST/STATIC WATER LEVEL(BGS):	NA	**TUBING LENGTH:**	7 feet
SURFACE ELEVATION (MSL):	19.77 feet	**INTAKE SCREEN DEPTH (BGS**	5.5 feet
TOTAL BORING DIAMETER/DEPTH:	2 inches/10 feet	**SCREEN LENGTH/TYPE:**	1-inch/stainless steel

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED	Vapor Probe Construction Details
9:50				0		Concrete 0 - 4" 0-5 feet bgs - hand augered, soil logged from cuttings.	
		SV-2 -2.5		1	SP	POORLY GRADED SAND with GRAVEL: dark brown (7.5YR 3/4), 70% fine to coarse sand, 30% fine gravel, moist	neat cement grout
				2	CL	LEAN CLAY: very dark gray (7.5YR 3/1), 90% fines, 10% fine sand, medium plasticity, moist, soft	
				3			0.25-inch Teflon tubing
	0.0	SV-2 -5		4			dry bentonite
	0.0			5			1-inch stainless steel vapor probe tip
				6			
				7		↓ dark gray (7.5YR 4/1)	#2/12 Monterey sand
	0.3			8			
		SV-2 -10		9			hydrated bentonite
10:50	131			10		**Bottom of Boring at 10 feet bgs**	
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			

SGI environmental THE SOURCE GROUP, INC.			BORING/WELL ID: **SV-3**
PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	Outside Building 3, near rollup door at south end		**Logged By:** P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6600		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger/Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/22/13 11:00	**FINISH DATE/TIME:**	3/22/13 12:10
FIRST/STATIC WATER LEVEL(BGS):	NA	**TUBING LENGTH:**	7.5 feet
SURFACE ELEVATION (MSL):	19.85 feet	**INTAKE SCREEN DEPTH (BGS**	6 feet
TOTAL BORING DIAMETER/DEPTH:	2 inches/10 feet	**SCREEN LENGTH/TYPE:**	1-inch/stainless steel

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED	Vapor Probe Construction Details
11:00				0		Concrete 0 - 12" 0-5 feet bgs - hand augered, soil logged from cuttings.	
				1	SP	POORLY GRADED SAND: very dark brown (2.5YR 3/1), 90% fine to medium sand, 5% fine gravel, 5% fines, moist	
	0.0	SV-3 -3		2			neat cement grout
				3	CL	SANDY LEAN CLAY with GRAVEL: very dark brown (2.5YR 3/1), 50% fines, 30% fine to coarse sand, 20% fine gravel, medium plasticity, moist	
	1.3	SV-3 -5		4	CL	LEAN CLAY: black (2.5YR 2.5/1), 90% fines, 10% fine sand, medium plasticity, moist,	0.25-inch Teflon tubing
	8.4			5			dry bentonite
	6.1			6			1-inch stainless steel vapor probe tip
				7		↓ dark gray (7.5YR 4/1)	
	1.6			8			#2/12 Monterey sand
	66.0	SV-3 -10		9			hydrated bentonite
12:10	356.0			10		**Bottom of Boring at 10 feet bgs**	
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			

SGI environmental THE SOURCE GROUP, INC.			BORING/WELL ID: **SV-4**
PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	Inside Building 3, at east corner		**Logged By:** P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Hand auger		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/22/13 7:50	**FINISH DATE/TIME:**	3/22/13 8:35
FIRST/STATIC WATER LEVEL(BGS):	NA	**TUBING LENGTH:**	7 feet
SURFACE ELEVATION (MSL):	19.78 feet	**INTAKE SCREEN DEPTH (BGS**	5.5 feet
TOTAL BORING DIAMETER/DEPTH:	2 inches/10 feet	**SCREEN LENGTH/TYPE:**	1-inch/stainless steel

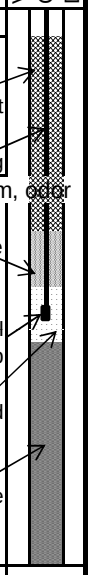
Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED	Vapor Probe Construction Details
7:50				0		Concrete 0 - 6" 0-5 feet bgs - hand augered, soil logged from cuttings.	
		SV-4 -2.5		1	SP	POORLY GRADED SAND with GRAVEL: brown (7.5YR 4/1), 75% fine to coarse sand, 20% fine gravel, 5% fines, moist	neat cement grout
				2			0.25-inch Teflon tubing
	1.1			3	CL	SANDY LEAN CLAY: black (2.5YR 2.5/1), 70% fines, 30% fine sand, medium plasticity, moist	
		SV-4 -5.5		4			dry bentonite
	8.7			5		odor	1-inch stainless steel
	24.3			6	CL	LEAN CLAY: black (2.5YR 2.5/1), 95% fines, 5% fine sand, medium plasticity, moist	vapor probe tip
		SV-4 -8		7		85% fines, 15% fine to coarse sand	#2/12 Monterey sand
	190					olive gray (5Y 4/2), strong odor	hydrated bentonite
8:35				8			
						Bottom of Boring at 8.5 feet bgs	
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SV-5**

PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	Adjacent to west boundary of UST excavation footprint		**Logged By:** P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6600		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger/Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/22/13 12:30	**FINISH DATE/TIME:**	3/22/13 13:20
FIRST/STATIC WATER LEVEL(BGS):	NA	**TUBING LENGTH:**	7 feet
SURFACE ELEVATION (MSL):	19.77 feet	**INTAKE SCREEN DEPTH (BGS**	5.5 feet
TOTAL BORING DIAMETER/DEPTH:	2 inches/10 feet	**SCREEN LENGTH/TYPE:**	1-inch/stainless steel

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED	Vapor Probe Construction Details
12:30				0		Concrete 0 - 4" 0-5 feet bgs - hand augered, soil logged from cuttings.	
				1	SP	POORLY GRADED SAND with GRAVEL: dark brown (7.5YR 3/4), 75% fine to coarse sand, 25% fine gravel, moist, loose	
		SV-5 -3		2			
	13.1			3	CL	LEAN CLAY: black (5YR 2.5/1), 90% fines, 10% fine sand, medium plasticity, moist, firm, odor	
		SV-5 -5		4			
	61.3			5			
	84.5			6		↓ dark gray (5YR 4/1)	
	36.9			7			
		SV-5 -9		8			
	526			9			
13:20				10		**Bottom of Boring at 10 feet bgs**	
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			



SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SV-6**

PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	Inside Building 1, east of MW-4		**Logged By:** P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6600		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger/Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/22/13 13:35	**FINISH DATE/TIME:**	3/22/13 15:00
FIRST/STATIC WATER LEVEL(BGS):	NA	**TUBING LENGTH:**	7 feet
SURFACE ELEVATION (MSL):	19.90 feet	**INTAKE SCREEN DEPTH (BGS**	5.5 feet
TOTAL BORING DIAMETER/DEPTH:	2 inches/10 feet	**SCREEN LENGTH/TYPE:**	1-inch/stainless steel

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED	Vapor Probe Construction Details
13:35				0		Concrete 0 - 6" 0-5 feet bgs - hand augered, soil logged from cuttings.	
				1	SP	POORLY GRADED SAND with GRAVEL: dark reddish brown (5YR 3/4), 80% fine to coarse sand, 20% fine gravel, moist	neat cement grout
	27.2	SV-6 -3		2	CL	LEAN CLAY: very dark gray (5Y 3/1), 85% fines, 15% fine sand, medium plasticity, moist, firm, odor	0.25-inch Teflon tubing
				3			
	14.7	SV-6 -5.5		4			dry bentonite
	42.9			5			1-inch stainless steel
	87.6			6		↓ dark gray (7.5YR 4/1)	vapor probe tip
	358	SV-6 -9		7		strong odor	#2/12 Monterey sand
	875			8			hydrated bentonite
15:00	877			9			
				10		**Bottom of Boring at 10 feet bgs**	
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SV-7**

PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	Inside Building 1, east of MW-4		**Logged By:** P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6600		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Hand auger/Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/22/13 14:00	**FINISH DATE/TIME:**	3/22/13 15:00
FIRST/STATIC WATER LEVEL(BGS):	NA	**TUBING LENGTH:**	7 feet
SURFACE ELEVATION (MSL):	19.89 feet	**INTAKE SCREEN DEPTH (BGS**	5.5 feet
TOTAL BORING DIAMETER/DEPTH:	2 inches/10 feet	**SCREEN LENGTH/TYPE:**	1-inch/stainless steel

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED	Vapor Probe Construction Details
14:00				0		Concrete 0 - 6" 0-5 feet bgs - hand augered, soil logged from cuttings.	
				1	SP	POORLY GRADED SAND with GRAVEL: dark brown (7.5YR 3/3), 80% fine to coarse sand, 20% fine gravel, moist	
		SV-7 -3		2	CL	LEAN CLAY: very dark gray (5Y 3/1), 85% fines, 15% fine sand, medium plasticity, moist, firm	
	0.0			3			
		SV-7 -5.5		4			
	0.0			5			
				6			
	0.7	SV-7 -9		7			
				8			
15:00	1.0			9			
				10		**Bottom of Boring at 10 feet bgs**	
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			

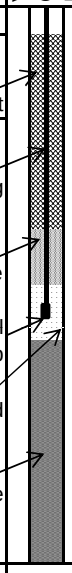
neat cement grout
0.25-inch Teflon tubing
dry bentonite
1-inch stainless steel vapor probe tip
#2/12 Monterey sand
hydrated bentonite

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SV-8**

PROJECT NAME AND ADDRESS:	Former Paco Pumps, 9201 San Leandro Street, Oakland, CA		**Project No.** 04-PFT-004
BORING LOCATION (AT SITE):	Inside Building 1, east of MW-4		**Logged By:** P. Jorgensen
CONTRACTOR AND EQUIPMENT:	Vironex/Geoprobe 6600		**P.G. Approval:** P. Jorgensen #7806
SAMPLING METHOD:	Macrocore	**MONITORING DEVICE:**	MiniRae 2000
START DATE/TIME:	3/22/13 15:00	**FINISH DATE/TIME:**	3/22/13 15:40
FIRST/STATIC WATER LEVEL(BGS):	NA	**TUBING LENGTH:**	7 feet
SURFACE ELEVATION (MSL):	19.91 feet	**INTAKE SCREEN DEPTH (BGS**	5.5 feet
TOTAL BORING DIAMETER/DEPTH:	2 inches/10 feet	**SCREEN LENGTH/TYPE:**	1-inch/stainless steel

Time	PID reading (ppm)	Samples Collected	Sample Recovery	Depth (feet)	USCS Classification	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES and PERMEABILITY ARE APPROXIMATE UNLESS OTHERWISE STATED	Vapor Probe Construction Details
15:00				0		Concrete 0 - 6"	
				1	SP	POORLY GRADED SAND with GRAVEL: dark brown (7.5YR 3/3), 80% fine to coarse sand, 20% fine gravel, moist	
	0.0	SV-8 -3		2	CL	LEAN CLAY: very dark gray (5Y 3/1), 85% fines, 15% fine sand, medium plasticity, moist, firm	
				3			
	0.0	SV-8 -5.5		4			
				5			
	0.7			6			
				7			
		SV-8 -9		8			
	0.2			9			
15:40				10		**Bottom of Boring at 10 feet bgs**	
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			



APPENDIX C

WELL DEVELOPMENT FIELD FORMS

SGI environmental THE SOURCE GROUP, INC.

Groundwater Monitoring Well Development Form

PROJECT NAME: Paco Pumps
PROJECT NO.: 04-PFT-004
TASK NO.: 4
WELL ID: MW9
DEVELOPMENT DATE: 3/26/13
DEVELOPMENT TIME: 1100
PERSONNEL: A. TRAUT / J. GARCIA

16.7
-8.6
8.1 x .16
1.296.

Historical rate:
# of volumes:
INITIAL DTW (ft): 8.6
DEPTH TO BOTTOM (ft): 16.7
WELL DIAM. (In): 2
WELL VOLUME (gals): 1.29 gal / 1 vol
h*3*0.064 (1.25"); h*3*0.16 (2"), h*3*0.26 (2.5"), h*3*0.38 (3"), h*3*0.65 (4"), h*3*1.5 (6")

DEVELOPMENT LOG:

DTW	Time (24 hr)	No. Gallons	pH	EC (µS/cm)	Temp. (°C)	Color	Turbidity	Other Observations
8.6	1112	0	7.24	5.1	19.6	MILKY BRN	—	
9.95	1116	2	7.03	1887	18.5	"	—	
10.4	1119	4	6.81	1450	18.3	BROWN	—	
10.1	1124	6	6.81	1272	18.3	"	—	
9.60	1130	8	6.80	1274	18.2	"	—	
9.60	1135	10	6.76	1284	18.2	"	—	
9.20	1140	12	6.74	1230	18.3	"	—	

Total Gallons Purged: 12

Development Method: 2" Submersible Pump | 12 Volt Pump | Peristaltic Pump | (Bailer) | (Surge Block) | Air Lift | Other

WELL DEVELOPMENT:

DTW at Time of Development:

COMMENTS:
PURGED 12 GALLONS DUE TO PARAMETERS STABILIZING.

SGI environmental THE SOURCE GROUP, INC.

Groundwater Monitoring Well Development Form

PROJECT NAME: Paco Pumps
PROJECT NO.: 04-PFT-004
TASK NO.: 4
WELL ID: MW10
DEVELOPMENT DATE: 3/26/13
DEVELOPMENT TIME: 1015
PERSONNEL: A. TRATT / J. GARCIA

21,2
-8,4
12,8 x .16
2,048

Historical rate:
# of volumes:
INITIAL DTW (ft): 8.4
DEPTH TO BOTTOM (ft): 21.2
WELL DIAM. (in): 2
WELL VOLUME (gals): 2 gal / 1 volum

h*3*0.064 (1.25"), h*3*0.16 (2"), h*3*0.26 (2.5"), h*3*0.38 (3"), h*3*0.65 (4"), h*3*1.5 (6")

DEVELOPMENT LOG:

DTW	Time (24 hr)	No. Gallons	pH	EC (µS/cm)	Temp. (°C)	Color	Turbidity	Other Observations
8,4	1020	0	7,52	4.6	17.6	LT BRN	—	
10.6	1025	2	7,60	1771	18,3	LT BRN	—	
10.2	1029	4	7.44	1357	18.4	"	—	
9.08	1035	6	7.28	1076	18.5	"	—	
9.10	1040	8	7.23	1023	18.5	"	—	
9.40	1045	10	7.20	986	18,5	"	—	
8.60	1050	12	7.21	963	18.6	"	—	
9.40	1055	14	7.21	957	18.6	"	—	

Total Gallons Purged: 14

Development Method: 2" Submersible Pump | 12 Volt Pump | Peristaltic Pump | Bailer | Surge Block | Air Lift | Other

WELL DEVELOPMENT:

DTW at Time of Development:

COMMENTS:
PURGED 14 gallons DUE TO PARAMETER STABILIZATION.

SGI environmental **THE SOURCE GROUP, INC.**

Groundwater Monitoring Well Development Form

PROJECT NAME: Paco Pumps
PROJECT NO.: 04-PFT-004
TASK NO.: 4
WELL ID: MW11
DEVELOPMENT DATE: 3/26/13
DEVELOPMENT TIME: 0830
PERSONNEL: A. TRALY / JOSE GARCIA

Historical rate: _____
# of volumes: _____

INITIAL DTW (ft): 8.55
DEPTH TO BOTTOM (ft): 19.2
WELL DIAM. (in): 2
WELL VOLUME (gals): 1.7 gal / 1 vol

19.2
− 8.55
10.65 * .16
1 vol = 1.7 gal

h*3*0.064 (1.25"), h*3*0.16 (2"), h*3*0.26 (2.5"), h*3*0.38 (3"), h*3*0.65 (4"), h*3*1.5 (6")

DEVELOPMENT LOG:

DTW	Time (24 hr)	No. Gallons	pH	EC (µS/cm)	Temp. (°C)	Color	Turbidity	Other Observations
9	0915	0	6.90	1397	18.4	LT. BRN.	—	
9.05	0927	2	7.83	16.0	16.6	"	—	
9.05	0933	4	7.56	10.22	18.2	"	—	
9.05	0941	6	7.46	835/844	18.2	"	—	
8.90	0949	8	7.42	683	18.2	"	—	
8.95	0954	10	7.42	668	18.3	"	—	
8.80	0959	12	7.46	692	18.4	"	—	

Total Gallons Purged: 12

Development Method: 2" Submersible Pump | 12 Volt Pump | Peristaltic Pump | (Bailer) | (Surge Block) | Air Lift | Other

WELL DEVELOPMENT:

DTW at Time of Development: _____

COMMENTS: PURGED 1 Vol, PARAMETERS STABILIZED.

APPENDIX D

SURVEYOR'S REPORT

Virgil Chavez Land Surveying
721 Tuolumne Street
Vallejo, California 94590
(707) 553-2476 • Fax (707) 553-8698

May 3, 2013
Project No.: 2999-06

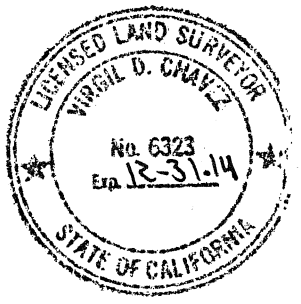
Paisha Jorgensen
The Source Group, Inc.
3478 Buskirk Ave., Suite 100
Pleasant Hill, CA 94523

Subject: Monitoring Well Survey
9201 San Leandro Street
Oakland, CA

Dear Paisha:

This is to confirm that we have proceeded at your request to survey the new wells at the above referenced location. The survey was completed on April 30, 2013. The benchmark for this survey was a PK nail and shiner in the median island on Hegenberger Ave., approximately 100 feet south of Coliseum Way. The latitude, longitude and coordinates are for top of casings and are based on the Calif. State Coordinate System, Zone III (NAD83). Benchmark Elev. =13.455 feet (NAVD 88).

Latitude	Longitude	Northing	Easting	Elev.	Desc.
				18.84	RIM MW-9
37.7417721	-122.1858944	2096948.71	6074215.47	18.53	TOC MW-9
				18.64	RIM MW-10
37.7418981	-122.1860315	2096995.31	6074176.67	18.12	TOC MW-10
				18.63	RIM MW-11
37.7419871	-122.1861364	2097028.24	6074146.92	18.32	TOC MW-11
37.7419938	-122.1857519	2097028.70	6074258.14	19.70	SV-1
37.7419144	-122.1857296	2096999.68	6074264.07	19.77	SV-2
37.7418834	-122.1856328	2096987.88	6074291.84	19.85	SV-3
37.7420314	-122.1855667	2097041.42	6074311.91	19.78	SV-4
37.7419610	-122.1855264	2097015.57	6074323.12	19.77	SV-5
37.7424693	-122.1849880	2097197.81	6074482.10	19.90	SV-6
37.7425280	-122.1849534	2097219.02	6074492.49	19.89	SV-7
37.7424815	-122.1849144	2097201.86	6074503.45	19.91	SV-8



Sincerely,

Virgil D. Chavez, PLS 6323

APPENDIX E

GROUNDWATER SAMPLING FIELD FORMS

WELL GAUGING DATA

Project # 130405-C1 Date 4/5/13 Client THE SOURCE GROUP

Site 9201 SAN LEANDRO ST., OAKLAND

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-1	0845	4					7.73	20.05		
MW-2	0900	4					8.19	20.14		
MW-3	0910						8.65	19.98		
MW-4	0855	4					6.96	20.00		
MW-5	0848	4					7.45	20.03		
MW-6	0927	2					8.69	16.27		
MW-7	0930	2					8.70	27.05		
MW-8										*
MW-9	0856	2					8.20	16.62		
MW-10	0854	2					7.34	21.31		
MW-11	0851	2					7.53	19.40		
AS-1S	0920	2					8.50	16.50		
AS-1D	0921	2					8.40	32.93		
ASMW2S	0939	2					8.47	16.90		
ASMW2D	0943	2					8.66	33.71		
E-1	0904	2					8.52	17.87		
E-2	0915	2					8.81	18.24		

WELL GAUGING DATA

Project # 130405-C1 Date 4/5/13 Client THE SOURCE GROUP

Site 9201 SAN LEANDRO ST, OAKLAND

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
E-3	0923	2					8.67	18.08		
E-4	0906	2					8.78	18.11		
E-5	0919	2					8.61	18.06		
E-6	0910	2					9.00	18.10		
E-7	0907	2					8.75	18.15		
E-8	0903	2					8.70	18.03		
E-9	0935	2					9.20	17.91		
E-10										**
E-11	0934	2					8.29	17.89		
E-12	0900	2					8.02	17.73		
*	Not accessible, under large pool of water									
**	Not accessible, paved over									

WELLHEAD INSPECTION CHECKLIST

Client THE SOURCE GROUP Date 4/5/13

Site Address 9201 SAN LEANDRO ST, OAKLAND

Job Number 130405-CK1 Technician CK / SK

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1						X		
MW-2						X		
MW-3						X		
MW-4						X		
MW-5						X		
MW-6	X							
MW-7						X		
MW-8								
MW-9	X							
MW-10	X							
MW-11	X							
AS-1S	X							
AS-1D						X		
ASMW2S	X							
ASMW2D						X		
E-1						X		

NOTES: MW-4 SOLID STEEL LID. E-1 -2/2 BOLTS NO LOCK

AS-1D -1/2 BOLTS MW-1 -2/2 BOLTS MW-5 MISSING LID -2/2 BOLTS

MW-2 -1/2 BOLTS MW-7 -2/2 BOLTS ASMW2D -1/2 BOLTS BROKEN IN TAB

MW-3 NO LID. WELL BOX BROKEN NO LOCK

WELLHEAD INSPECTION CHECKLIST

Client THE SOURCE GROUP Date 4/5/13

Site Address 9201 SAN LEANDRO ST. / OAKLAND

Job Number 130405-CK1 Technician CK / SK

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
E-2	X							
E-3	X							
E-4						X		
E-5	X							
E-6	X							
E-7	X							
E-8						X		
E-9						X		
E-10								
E-11						X		
E-12						X		

NOTES: E-12 -2 1/2 BOLTS NO LOCK 1/2 BOLT HOLES BROKEN.

E-11 -1/2 BOLTS. BELOW GRADE. WELL EXPAND. CAP SMASHED IN WELL CASING

E-8 WELL CAP BROKEN E-9 1/2 TABS BROKEN -1/2 BOLTS

WELL MONITORING DATA SHEET

Project #: 130405-C1	Client: Source Group
Sampler: SK	Date: 9-5-13
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 20.05	Depth to Water (DTW): 7.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.19	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (X) Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (X) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

8	(Gals.) X	3	=	24	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1050	18.1	6.87	843	874	8	
1052	18.0	7.10	838	>1000	16	
1054	18.0	7.13	843	>1000	24	

Did well dewater? Yes (No) Gallons actually evacuated: 24

Sampling Date: 4-5-13 Sampling Time: 1108 Depth to Water: 9.98

Sample I.D.: MW-1 Laboratory: Kiff CalScience Other (Accutest)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.74 mg/L	Post-purge:	0.81	mg/L
O.R.P. (if req'd):	Pre-purge:	86 mV	Post-purge:	47	mV

WELL MONITORING DATA SHEET

Project #: 130405 -ck1	Client: SG1
Sampler: CK	Date: 4/5/13
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 20.14	Depth to Water (DTW): 8.19
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.58	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other:_____

7.8 (Gals.) X	3	=	23.4 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1028	18.5	7.06	1084	101	8.0	
1030	18.1	7.08	1100	97	16.0	
1032	18.2	7.06	1107	93	24.0	

Did well dewater? Yes (No) Gallons actually evacuated: 24.0

Sampling Date: 4/5/13 Sampling Time: ~~1025~~ 1040 Depth to Water: 8.45

Sample I.D.: MW-2 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other): See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.71 mg/L	Post-purge:	0.63	mg/L
O.R.P. (if req'd):	Pre-purge:	39 mV	Post-purge:	28	mV

WELL MONITORING DATA SHEET

Project #: 130405-CM1	Client: SG1
Sampler: CK	Date: 4/5/13
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.98	Depth to Water (DTW): 8.65
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.92	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other:

7.4 (Gals.) X 3 = 22.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1227	18.7	7.05	788	529	7.5	
1229	18.7	7.03	643	468	15.0	
1231	18.8	7.01	689	263	22.5	

Did well dewater? Yes (No) Gallons actually evacuated: 22.5

Sampling Date: 4/5/13 Sampling Time: 1240 Depth to Water:

Sample I.D.: MW-3 Laboratory: Kiff CalScience (Other) ACCUTEST

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): MW-3 DUP @ 1245

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	~~1.10~~ 0.80	mg/L	Post-purge:	0.63 mg/L
O.R.P. (if req'd):	Pre-purge:	-106	mV	Post-purge:	-102 mV

WELL MONITORING DATA SHEET

Project #: 130405 - CK1	Client: SG1
Sampler: CW	Date: 4/5/13
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 20.00	Depth to Water (DTW): 6.96
Depth to Free Product: ____	Thickness of Free Product (feet): ____
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.57	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other____

Sampling Method: Bailer, (Disposable Bailer), Extraction Port, Dedicated Tubing, Other: ____

8.5 (Gals.) X 3 = 25.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1054	17.8	7.13	857	506	8.5	
1056	17.3	7.11	857	240	17.0	
1058	17.2	7.10	870	296	25.5	

Did well dewater? Yes (No) Gallons actually evacuated: 25.5

Sampling Date: 4/5/13 Sampling Time: 1105 Depth to Water: 7.23

Sample I.D.: MW-4 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other) STLC ONLY

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.53 mg/L	Post-purge:	0.56 mg/L	
O.R.P. (if req'd):	Pre-purge:	100 mV	Post-purge:	-9 mV	

WELL MONITORING DATA SHEET

Project #: 130405-CK1	Client: The Source Group
Sampler: SK	Date: 9-5-13
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 20.03	Depth to Water (DTW): 7.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.97	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, ~~Electric Submersible~~, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, ~~Disposable Bailer~~, Extraction Port, Dedicated Tubing, Other: _____

8.2 (Gals.) X 3 = 24.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1119	18.9	7.62	530	399	8.2	
1121	19.1	7.26	543	>1000	16.4	
		Well	dewatered	@	16.5 gal	
1130	18.9	7.17	550	317	Grab	

Did well dewater? (Yes) No Gallons actually evacuated: 16.5

Sampling Date: 9-5-13 Sampling Time: 1130 Depth to Water: 9.80

Sample I.D.: MW-5 Laboratory: Kiff CalScience Other Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.69 mg/L	Post-purge:	0.53	mg/L
O.R.P. (if req'd):	Pre-purge:	35 mV	Post-purge:	-11	mV

WELL MONITORING DATA SHEET

Project #: 130405-CM1	Client: SGI
Sampler: CK	Date: 4/5/13
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 16.27	Depth to Water (DTW): 8.69
Depth to Free Product: ____	Thickness of Free Product (feet): ____
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.21	

Purge Method: Bailer, (Disposable Bailer), Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other____

Sampling Method: Bailer, (Disposable Bailer), Extraction Port, Dedicated Tubing, Other: ____

1.2 (Gals.) X	3	= 3.6 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1303	17.4	6.94	1556	942	1.2	
1305	17.5	6.92	1580	854	2.4	
1307	17.5	6.92	1587	853	3.6	

Did well dewater? Yes (No) Gallons actually evacuated: 3.6

Sampling Date: 4/5/13 Sampling Time: 1310 Depth to Water: 8.73

Sample I.D.: MW-6 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	(Pre-purge):	0.93	mg/L	Post-purge:	(0.97)	mg/L
O.R.P. (if req'd):	(Pre-purge):	-133	mV	Post-purge:	-112	mV

WELL MONITORING DATA SHEET

Project #: 130405-CK1	Client: Source Group
Sampler: SK	Date: 4-5-13
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 27.05	Depth to Water (DTW): 8.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.37	

Purge Method: Bailer / (X) Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: Bailer / (X) Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

3 (Gals.) X 3 = 9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1020	18.2	7.21	1145	>1000	3	
1025	18.1	7.19	1129	>1000	6	
1030	18.0	7.17	1082	>1000	9	

Did well dewater? Yes (No) Gallons actually evacuated: 9.0

Sampling Date: 4-5-13 Sampling Time: 1033 Depth to Water: 8.97

Sample I.D.: MW-7 Laboratory: Kiff CalScience Other (Anatest)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.63 mg/L	Post-purge:	0.49	mg/L
O.R.P. (if req'd):	Pre-purge:	4 mV	Post-purge:	-16	mV

WELL MONITORING DATA SHEET

Project #: 130405-CK1	Client: SG1
Sampler: CK	Date: 4/5/13
Well I.D.: MW-8	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ___

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ___

___ (Gals.) X ___ = ___ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
*	UNABLE TO LOCATE					
	COVERED BY METAL TUBING					
	SUBMERGED BY LARGE PUDDLE					
	NO SAMPLE TAKEN					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other ___

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130405-CK1	Client: The Source Group
Sampler: SK	Date: 4-5-13
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 16.82	Depth to Water (DTW): 8.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.92	

Purge Method: Bailer; (X) Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: Bailer; (X) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

1.4 (Gals.) X 3 = 4.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1248	18.0	7.56	1809	>1000	1.4	
1249	18.0	7.47	1601	>1000	2.8	
1252	18.1	7.39	1478	>1000	4.2	

Did well dewater? Yes (No) Gallons actually evacuated: 4.2

Sampling Date: 4-5-13 Sampling Time: 1255 Depth to Water: 8.27

Sample I.D.: MW-9 Laboratory: Kiff CalScience (Other Accutest)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.61 mg/L	Post-purge:	0.55 mg/L	
O.R.P. (if req'd):	Pre-purge:	39 mV	Post-purge:	-9 mV	

WELL MONITORING DATA SHEET

Project #: 130905-CK1	Client: The Source Group
Sampler: SK	Date: 4-5-13
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 21.31	Depth to Water (DTW): 7.34
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.13	

Purge Method: Bailer / (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Dedicated Tubing / Other: ____

2.2 (Gals.) X	3 =	6.6 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1212	19.4	7.67	1048	>1000	2.2	
1215	19.2	7.54	1011	>1000	4.4	
1218	19.3	7.48	996	>1000	6.6	

Did well dewater? Yes (No) Gallons actually evacuated: 6.6

Sampling Date: 4-5-13 Sampling Time: 1225 Depth to Water: 7.43

Sample I.D.: MW-10 Laboratory: Kiff CalScience Other (Accutest)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.54 mg/L	Post-purge:	0.50	mg/L
O.R.P. (if req'd):	Pre-purge:	65 mV	Post-purge:	33	mV

WELL MONITORING DATA SHEET

Project #: 130405-CK1	Client: The Source Group
Sampler: SK	Date: 4-5-13
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.40	Depth to Water (DTW): 7.53
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.90	

Purge Method: Bailer / X Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: Bailer / X Disposable Bailer / Extraction Port / Dedicated Tubing / Other:____

1.9 (Gals.) X 3 = 5.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1145	18.5	7.36	687	>1000	2.0	
1147 ~~1148~~	18.8	7.38	690	>1000	4.0	
1149	18.9	7.41	697	>1000	5.7	

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Date: 4-5-13 Sampling Time: 1155 Depth to Water: 7.59

Sample I.D.: MW-11 Laboratory: Kiff CalScience Other (Accutest)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.55 mg/L	Post-purge:	0.38	mg/L
O.R.P. (if req'd):	Pre-purge:	32 mV	Post-purge:	-58	mV

WELL MONITORING DATA SHEET

Project #: 130405-CK1	Client: Source Group
Sampler: SK	Date: 4-5-13
Well I.D.: E-2	Well Diameter: ② 3 4 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW): 8.81
Depth to Free Product: 18.24	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.69	

Purge Method: Bailer, ~~Disposable Bailer~~, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, ~~Disposable Bailer~~, Extraction Port, Dedicated Tubing, Other: _____

1.5 (Gals.) X	3 =	4.5 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0957	~~64.1~~ 18.2	6.87	1119	>1000	1.5	
0959	~~64.4~~ 18.2	6.91	1102	>1000	3.0	
1001	~~64.5~~ 18.2	6.94	1094	>1000	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 4-5-13 Sampling Time: 1005 Depth to Water: 9.10

Sample I.D.: E-2 Laboratory: Kiff CalScience Other Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.57 mg/L	Post-purge:	0.50	mg/L
O.R.P. (if req'd):	Pre-purge:	12 mV	Post-purge:	-53	mV

WELL MONITORING DATA SHEET

Project #: 130405-CK1	Client: The Source Group
Sampler: SK	Date: 4-5-13
Well I.D.: E-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.08	Depth to Water (DTW): 8.67
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.55	

Purge Method: Bailer; (X) Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (X) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

1.5 (Gals.) X	3	= 4.5 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1313	17.8	7.10	1241	>1000	1.5	
1315	17.8	7.02	1279	>1000	3.0	
1317	17.8	6.92	1285	>1000	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 4-5-13 Sampling Time: 1325 Depth to Water: 9.98

Sample I.D.: E-3 Laboratory: Kiff CalScience Other (Accutest)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.52 mg/L	Post-purge:	0.48 mg/L	
O.R.P. (if req'd):	Pre-purge:	-118 mV	Post-purge:	-134 mV	

WELL MONITORING DATA SHEET

Project #: 130504-CK1	Client: The Source Group
Sampler: SK	Date: 4-5-13
Well I.D.: E-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.10	Depth to Water (DTW): 9.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.82	

Purge Method: Bailer / (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Dedicated Tubing / Other: ____

1.5 (Gals.) X 3 = 4.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1339	18.7	6.94	1218	> 1000	1.5	
1341	18.7	7.00	1216	> 1000	3.0	
1343	18.6	7.01	1190	> 1000	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 4-5-13 Sampling Time: 1350 Depth to Water: 9.53

Sample I.D.: E-6 Laboratory: Kiff CalScience Other (Accutest)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.51 mg/L	Post-purge:	0.44 mg/L	
O.R.P. (if req'd):	Pre-purge:	-54 mV	Post-purge:	-136 mV	

WELL MONITORING DATA SHEET

Project #: 130405-CM1	Client: SG1
Sampler: CW	Date: 4/5/13
Well I.D.: E-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.15	Depth to Water (DTW): 8.75
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.63	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

1.5 (Gals.) X 3 = 4.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1146	18.6	6.93	1649	479	1.5	
1148	18.8	6.91	1602	623	3.0	
1150	18.8	6.91	1583	735	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 4/5/13 Sampling Time: 1155 Depth to Water: 8.85

Sample I.D.: E-7 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other: See COC)

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.70 mg/L	Post-purge:	0.59 mg/L	
O.R.P. (if req'd):	Pre-purge:	-114 mV	Post-purge:	-50 mV	

WELL MONITORING DATA SHEET

Project #: 130405-CK1	Client: SGI
Sampler: CK	Date: 4/5/13
Well I.D.: E-8	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.03	Depth to Water (DTW): 8.70
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.57	

Purge Method: Bailer; ~~Disposable Bailer~~; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; ~~Disposable Bailer~~; Extraction Port; Dedicated Tubing; Other: _____

1.5 (Gals.) X 3 = 4.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1207	17.8	7.10	481	>1000	1.5	
1209	19.9	7.10	700	>1000	3.0	
1211	17.9	7.08	725	>1000	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 4/5/13 Sampling Time: 1215 Depth to Water: 8.78

Sample I.D.: E-8 Laboratory: Kiff CalScience Other ACCUTEST

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) ~~Other~~: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.63 mg/L	Post-purge:	0.59	mg/L
O.R.P. (if req'd):	Pre-purge:	-126 mV	Post-purge:	-121	mV

WELL MONITORING DATA SHEET

Project #: 130405-CN	Client: SGI
Sampler: CN	Date: 4/5/13
Well I.D.: E-12	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 17.73	Depth to Water (DTW): 8.02
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.96	

Purge Method: Bailer; ~~Disposable Bailer~~; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

1.6 (Gals.) X	3	=	4.8 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1005	19.3	6.77	987	71000	1.6	
1007	18.9	6.78	967	71000	3.2	
1009	18.9	6.80	965	71000	4.8	

Did well dewater? Yes (No) Gallons actually evacuated: 4.8

Sampling Date: 4/5/13 Sampling Time: 1015 Depth to Water: 8.10

Sample I.D.: E-12 Laboratory: Kiff CalScience (Other) ACCUTEST

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other) SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.60 mg/L	Post-purge:	0.58	mg/L
O.R.P. (if req'd):	Pre-purge:	77 mV	Post-purge:	27	mV

* TRIP BLANK: TB-1 @ 0900

WELL MONITORING DATA SHEET

Project #: 130405-CM	Client: SGI
Sampler: CM	Date: 4/5/13
Well I.D.: AS-1D	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 32.97	Depth to Water (DTW): 8.40
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.31	

Purge Method: Bailer; ~~Disposable Bailer~~; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; ~~Disposable Bailer~~; Extraction Port; Dedicated Tubing; Other: _____

3.9 (Gals.) X	3	=	11.7 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1120	18.8	7.25	797	537	4.0	
1126	18.9	7.27	789	71000	8.0	
1132	18.8	7.27	784	71000	12.0	

Did well dewater? Yes (No) Gallons actually evacuated: 12.0

Sampling Date: 4/5/13 Sampling Time: 1135 Depth to Water: 8.67

Sample I.D.: AS-1D Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other): See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.60 mg/L	Post-purge:	0.55	mg/L
O.R.P. (if req'd):	Pre-purge:	56 mV	Post-purge:	34	mV

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	SGI @ 9201 SAN LEANDRO ST. OAKLAND	PROJECT NUMBER	130405-CH1

EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
OLYRAMETER MYRON L II	6210806	4/5/13 0950	3900 µS CONDUCT	3903	YES		CH
			7.00 10.00 PH 4.00	7.03 10.02 4.03	YES		CH
			ORP. 240	239	YES	18°C	CH
YSI 550 DO METER	08B100951	4/5/13 0615	D/O 100 %	98.9 %	YES		CH
Ultrameter myron L	6203098	4-5-13 0605	Cond 3900 µS PH 7 10 4	3900 7.01 10.02 3.99	Yes	15.9 °C	SK
YSI 550	06E1424AJ	4-5-13 0615	D/O 100%	99.3	Yes	17.4	SK

APPENDIX F

LABORATORY ANALYTICAL DATA – SOIL

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-48478-1
Client Project/Site: Paco Pumps

For:
The Source Group
3478 Buskirk Avenue, Suite 100
Pleasant Hill, California 94523

Attn: Mr. Paisha Jorgensen

Authorized for release by:
3/28/2013 4:15:32 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Job ID: 720-48478-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-48478-1

Comments
No additional comments.

Receipt
The samples were received on 3/21/2013 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6º C.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): The container labels list MW9-13. The COC listsMW9-9. Time matches. Labeled according to the coc.

GC/MS VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: MW10-2.5 (720-48478-4), MW11-2.5 (720-48478-7), MW11-5 (720-48478-8), MW9-2.5 (720-48478-1).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW9-2.5 — Lab Sample ID: 720-48478-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	240		9.9		mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	870		490		mg/Kg	10		8015B	Total/NA

Client Sample ID: MW9-4.5 — Lab Sample ID: 720-48478-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.1		0.98		mg/Kg	1		8015B	Total/NA

Client Sample ID: MW9-9 — Lab Sample ID: 720-48478-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.0		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: MW10-2.5 — Lab Sample ID: 720-48478-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	140000		17000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	4600		99		mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	8800		4900		mg/Kg	100		8015B	Total/NA

Client Sample ID: MW10-5 — Lab Sample ID: 720-48478-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.9		1.0		mg/Kg	1		8015B	Total/NA

Client Sample ID: MW10-12.5 — Lab Sample ID: 720-48478-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.5		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: MW11-2.5 — Lab Sample ID: 720-48478-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	46		8.7		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	710		220		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	880		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2100		990		mg/Kg	20		8015B	Total/NA

Client Sample ID: MW11-5 — Lab Sample ID: 720-48478-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	2500		160		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	780		10		mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1000		500		mg/Kg	10		8015B	Total/NA

Client Sample ID: MW11-12.5 — Lab Sample ID: 720-48478-9

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW11-12.5 (Continued)

Lab Sample ID: 720-48478-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.7		0.98		mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW9-2.5
Date Collected: 03/21/13 08:00
Date Received: 03/21/13 17:30

Lab Sample ID: 720-48478-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		3.6		ug/Kg		03/22/13 21:05	03/22/13 22:55	1
Benzene	ND		3.6		ug/Kg		03/22/13 21:05	03/22/13 22:55	1
Ethylbenzene	ND		3.6		ug/Kg		03/22/13 21:05	03/22/13 22:55	1
Toluene	ND		3.6		ug/Kg		03/22/13 21:05	03/22/13 22:55	1
Xylenes, Total	ND		7.1		ug/Kg		03/22/13 21:05	03/22/13 22:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		03/22/13 21:05	03/22/13 22:55	1
TBA	ND		7.1		ug/Kg		03/22/13 21:05	03/22/13 22:55	1
DIPE	ND		3.6		ug/Kg		03/22/13 21:05	03/22/13 22:55	1
TAME	ND		3.6		ug/Kg		03/22/13 21:05	03/22/13 22:55	1
Ethyl t-butyl ether	ND		3.6		ug/Kg		03/22/13 21:05	03/22/13 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*67*		*45 - 131*	*03/22/13 21:05*	*03/22/13 22:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*	*03/22/13 21:05*	*03/22/13 22:55*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*03/22/13 21:05*	*03/22/13 22:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**240**		9.9		mg/Kg		03/22/13 10:27	03/25/13 15:06	10
Motor Oil Range Organics [C24-C36]	**870**		490		mg/Kg		03/22/13 10:27	03/25/13 15:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*03/22/13 10:27*	*03/25/13 15:06*	*10*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW9-4.5
Date Collected: 03/21/13 08:05
Date Received: 03/21/13 17:30

Lab Sample ID: 720-48478-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.6		ug/Kg		03/22/13 21:05	03/22/13 23:24	1
Benzene	ND		4.6		ug/Kg		03/22/13 21:05	03/22/13 23:24	1
Ethylbenzene	ND		4.6		ug/Kg		03/22/13 21:05	03/22/13 23:24	1
Toluene	ND		4.6		ug/Kg		03/22/13 21:05	03/22/13 23:24	1
Xylenes, Total	ND		9.1		ug/Kg		03/22/13 21:05	03/22/13 23:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		03/22/13 21:05	03/22/13 23:24	1
TBA	ND		9.1		ug/Kg		03/22/13 21:05	03/22/13 23:24	1
DIPE	ND		4.6		ug/Kg		03/22/13 21:05	03/22/13 23:24	1
TAME	ND		4.6		ug/Kg		03/22/13 21:05	03/22/13 23:24	1
Ethyl t-butyl ether	ND		4.6		ug/Kg		03/22/13 21:05	03/22/13 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*64*		*45 - 131*	*03/22/13 21:05*	*03/22/13 23:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*	*03/22/13 21:05*	*03/22/13 23:24*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*	*03/22/13 21:05*	*03/22/13 23:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.1**		0.98		mg/Kg		03/22/13 10:27	03/25/13 13:05	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		03/22/13 10:27	03/25/13 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*94*		*40 - 130*	*03/22/13 10:27*	*03/25/13 13:05*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW9-9
Date Collected: 03/21/13 08:30
Date Received: 03/21/13 17:30

Lab Sample ID: 720-48478-3
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		3.8		ug/Kg		03/22/13 21:05	03/22/13 23:53	1
Benzene	ND		3.8		ug/Kg		03/22/13 21:05	03/22/13 23:53	1
Ethylbenzene	ND		3.8		ug/Kg		03/22/13 21:05	03/22/13 23:53	1
Toluene	ND		3.8		ug/Kg		03/22/13 21:05	03/22/13 23:53	1
Xylenes, Total	ND		7.6		ug/Kg		03/22/13 21:05	03/22/13 23:53	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		03/22/13 21:05	03/22/13 23:53	1
TBA	ND		7.6		ug/Kg		03/22/13 21:05	03/22/13 23:53	1
DIPE	ND		3.8		ug/Kg		03/22/13 21:05	03/22/13 23:53	1
TAME	ND		3.8		ug/Kg		03/22/13 21:05	03/22/13 23:53	1
Ethyl t-butyl ether	ND		3.8		ug/Kg		03/22/13 21:05	03/22/13 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*45 - 131*	*03/22/13 21:05*	*03/22/13 23:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*	*03/22/13 21:05*	*03/22/13 23:53*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*03/22/13 21:05*	*03/22/13 23:53*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.0**		0.99		mg/Kg		03/22/13 10:27	03/25/13 13:29	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		03/22/13 10:27	03/25/13 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*94*		*40 - 130*	*03/22/13 10:27*	*03/25/13 13:29*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW10-2.5
Date Collected: 03/21/13 09:15
Date Received: 03/21/13 17:30

Lab Sample ID: 720-48478-4
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		350		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
Gasoline Range Organics (GRO) -C5-C12	140000		17000		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
Ethylbenzene	ND		350		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
MTBE	ND		350		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
TAME	ND		350		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
Ethyl t-butyl ether	ND		350		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
Toluene	ND		350		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
EDB	ND		350		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
Xylenes, Total	ND		690		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
1,2-Dichloroethane	ND		350		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
TBA	ND		690		ug/Kg		03/21/13 19:30	03/27/13 00:54	100
DIPE	ND		350		ug/Kg		03/21/13 19:30	03/27/13 00:54	100

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4600		99		mg/Kg		03/22/13 10:27	03/25/13 15:31	100
Motor Oil Range Organics [C24-C36]	8800		4900		mg/Kg		03/22/13 10:27	03/25/13 15:31	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*03/22/13 10:27*	*03/25/13 15:31*	*100*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW10-5
Date Collected: 03/21/13 09:35
Date Received: 03/21/13 17:30

Lab Sample ID: 720-48478-5
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.0		ug/Kg		03/21/13 19:30	03/25/13 23:19	1
Benzene	ND		4.0		ug/Kg		03/21/13 19:30	03/25/13 23:19	1
Ethylbenzene	ND		4.0		ug/Kg		03/21/13 19:30	03/25/13 23:19	1
Toluene	ND		4.0		ug/Kg		03/21/13 19:30	03/25/13 23:19	1
Xylenes, Total	ND		8.1		ug/Kg		03/21/13 19:30	03/25/13 23:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		03/21/13 19:30	03/25/13 23:19	1
TBA	ND		8.1		ug/Kg		03/21/13 19:30	03/25/13 23:19	1
DIPE	ND		4.0		ug/Kg		03/21/13 19:30	03/25/13 23:19	1
TAME	ND		4.0		ug/Kg		03/21/13 19:30	03/25/13 23:19	1
Ethyl t-butyl ether	ND		4.0		ug/Kg		03/21/13 19:30	03/25/13 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*45 - 131*	*03/21/13 19:30*	*03/25/13 23:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*03/21/13 19:30*	*03/25/13 23:19*	*1*
Toluene-d8 (Surr)	*105*		*58 - 140*	*03/21/13 19:30*	*03/25/13 23:19*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.9**		1.0		mg/Kg		03/22/13 10:27	03/25/13 13:53	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/22/13 10:27	03/25/13 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*103*		*40 - 130*	*03/22/13 10:27*	*03/25/13 13:53*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW10-12.5
Date Collected: 03/21/13 09:55
Date Received: 03/21/13 17:30

Lab Sample ID: 720-48478-6
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		3.9		ug/Kg		03/21/13 19:30	03/26/13 17:38	1
Benzene	ND		3.9		ug/Kg		03/21/13 19:30	03/26/13 17:38	1
Ethylbenzene	ND		3.9		ug/Kg		03/21/13 19:30	03/26/13 17:38	1
Toluene	ND		3.9		ug/Kg		03/21/13 19:30	03/26/13 17:38	1
Xylenes, Total	ND		7.8		ug/Kg		03/21/13 19:30	03/26/13 17:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		03/21/13 19:30	03/26/13 17:38	1
TBA	ND		7.8		ug/Kg		03/21/13 19:30	03/26/13 17:38	1
DIPE	ND		3.9		ug/Kg		03/21/13 19:30	03/26/13 17:38	1
TAME	ND		3.9		ug/Kg		03/21/13 19:30	03/26/13 17:38	1
Ethyl t-butyl ether	ND		3.9		ug/Kg		03/21/13 19:30	03/26/13 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*45 - 131*	*03/21/13 19:30*	*03/26/13 17:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*	*03/21/13 19:30*	*03/26/13 17:38*	*1*
Toluene-d8 (Surr)	*106*		*58 - 140*	*03/21/13 19:30*	*03/26/13 17:38*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.5**		0.99		mg/Kg		03/22/13 10:27	03/25/13 14:18	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/22/13 10:27	03/25/13 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*93*		*40 - 130*	*03/22/13 10:27*	*03/25/13 14:18*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW11-2.5
Date Collected: 03/21/13 13:05
Date Received: 03/21/13 17:30

Lab Sample ID: 720-48478-7
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.4		ug/Kg		03/21/13 19:30	03/26/13 18:07	1
Benzene	ND		4.4		ug/Kg		03/21/13 19:30	03/26/13 18:07	1
Ethylbenzene	ND		4.4		ug/Kg		03/21/13 19:30	03/26/13 18:07	1
Toluene	ND		4.4		ug/Kg		03/21/13 19:30	03/26/13 18:07	1
Xylenes, Total	**46**		8.7		ug/Kg		03/21/13 19:30	03/26/13 18:07	1
Gasoline Range Organics (GRO) -C5-C12	**710**		220		ug/Kg		03/21/13 19:30	03/26/13 18:07	1
TBA	ND		8.7		ug/Kg		03/21/13 19:30	03/26/13 18:07	1
DIPE	ND		4.4		ug/Kg		03/21/13 19:30	03/26/13 18:07	1
TAME	ND		4.4		ug/Kg		03/21/13 19:30	03/26/13 18:07	1
Ethyl t-butyl ether	ND		4.4		ug/Kg		03/21/13 19:30	03/26/13 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*45 - 131*	*03/21/13 19:30*	*03/26/13 18:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*	*03/21/13 19:30*	*03/26/13 18:07*	*1*
Toluene-d8 (Surr)	*107*		*58 - 140*	*03/21/13 19:30*	*03/26/13 18:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**880**		20		mg/Kg		03/22/13 10:27	03/25/13 15:55	20
Motor Oil Range Organics [C24-C36]	**2100**		990		mg/Kg		03/22/13 10:27	03/25/13 15:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*03/22/13 10:27*	*03/25/13 15:55*	*20*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW11-5
Date Collected: 03/21/13 13:20
Date Received: 03/21/13 17:30

Lab Sample ID: 720-48478-8
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		3.3		ug/Kg		03/21/13 19:30	03/26/13 00:46	1
Benzene	ND		3.3		ug/Kg		03/21/13 19:30	03/26/13 00:46	1
Ethylbenzene	ND		3.3		ug/Kg		03/21/13 19:30	03/26/13 00:46	1
Toluene	ND		3.3		ug/Kg		03/21/13 19:30	03/26/13 00:46	1
Xylenes, Total	ND		6.5		ug/Kg		03/21/13 19:30	03/26/13 00:46	1
Gasoline Range Organics (GRO) -C5-C12	**2500**		160		ug/Kg		03/21/13 19:30	03/26/13 00:46	1
TBA	ND		6.5		ug/Kg		03/21/13 19:30	03/26/13 00:46	1
DIPE	ND		3.3		ug/Kg		03/21/13 19:30	03/26/13 00:46	1
TAME	ND		3.3		ug/Kg		03/21/13 19:30	03/26/13 00:46	1
Ethyl t-butyl ether	ND		3.3		ug/Kg		03/21/13 19:30	03/26/13 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*119*		*45 - 131*	*03/21/13 19:30*	*03/26/13 00:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*	*03/21/13 19:30*	*03/26/13 00:46*	*1*
Toluene-d8 (Surr)	*104*		*58 - 140*	*03/21/13 19:30*	*03/26/13 00:46*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**780**		10		mg/Kg		03/22/13 10:27	03/25/13 16:19	10
Motor Oil Range Organics [C24-C36]	**1000**		500		mg/Kg		03/22/13 10:27	03/25/13 16:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*03/22/13 10:27*	*03/25/13 16:19*	*10*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Client Sample ID: MW11-12.5
Date Collected: 03/21/13 13:50
Date Received: 03/21/13 17:30

Lab Sample ID: 720-48478-9
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.1		ug/Kg		03/21/13 19:30	03/26/13 01:15	1
Benzene	ND		4.1		ug/Kg		03/21/13 19:30	03/26/13 01:15	1
Ethylbenzene	ND		4.1		ug/Kg		03/21/13 19:30	03/26/13 01:15	1
Toluene	ND		4.1		ug/Kg		03/21/13 19:30	03/26/13 01:15	1
Xylenes, Total	ND		8.2		ug/Kg		03/21/13 19:30	03/26/13 01:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		03/21/13 19:30	03/26/13 01:15	1
TBA	ND		8.2		ug/Kg		03/21/13 19:30	03/26/13 01:15	1
DIPE	ND		4.1		ug/Kg		03/21/13 19:30	03/26/13 01:15	1
TAME	ND		4.1		ug/Kg		03/21/13 19:30	03/26/13 01:15	1
Ethyl t-butyl ether	ND		4.1		ug/Kg		03/21/13 19:30	03/26/13 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*45 - 131*	*03/21/13 19:30*	*03/26/13 01:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*	*03/21/13 19:30*	*03/26/13 01:15*	*1*
Toluene-d8 (Surr)	*106*		*58 - 140*	*03/21/13 19:30*	*03/26/13 01:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.7**		0.98		mg/Kg		03/22/13 10:27	03/25/13 14:42	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		03/22/13 10:27	03/25/13 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*40 - 130*	*03/22/13 10:27*	*03/25/13 14:42*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-132920/4
Matrix: Solid
Analysis Batch: 132920

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			03/22/13 19:32	1
Ethylbenzene	ND		5.0		ug/Kg			03/22/13 19:32	1
MTBE	ND		5.0		ug/Kg			03/22/13 19:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			03/22/13 19:32	1
Toluene	ND		5.0		ug/Kg			03/22/13 19:32	1
Xylenes, Total	ND		10		ug/Kg			03/22/13 19:32	1
TAME	ND		5.0		ug/Kg			03/22/13 19:32	1
Ethyl t-butyl ether	ND		5.0		ug/Kg			03/22/13 19:32	1
TBA	ND		10		ug/Kg			03/22/13 19:32	1
DIPE	ND		5.0		ug/Kg			03/22/13 19:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*		*03/22/13 19:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*03/22/13 19:32*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*		*03/22/13 19:32*	*1*

Lab Sample ID: LCS 720-132920/5
Matrix: Solid
Analysis Batch: 132920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.6		ug/Kg		97	70 - 130
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137
MTBE	50.0	57.5		ug/Kg		115	70 - 144
Toluene	50.0	48.0		ug/Kg		96	80 - 128
TAME	50.0	47.4		ug/Kg		95	70 - 140
Ethyl t-butyl ether	50.0	51.3		ug/Kg		103	70 - 130
TBA	1000	893		ug/Kg		89	63 - 130
DIPE	50.0	56.9		ug/Kg		114	70 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*106*		*58 - 140*

Lab Sample ID: LCS 720-132920/7
Matrix: Solid
Analysis Batch: 132920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	970		ug/Kg		97	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-132920/7
Matrix: Solid
Analysis Batch: 132920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*110*		*58 - 140*

Lab Sample ID: LCSD 720-132920/6
Matrix: Solid
Analysis Batch: 132920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	47.8		ug/Kg		96	70 - 130	2	20
Ethylbenzene			50.0	49.6		ug/Kg		99	80 - 137	2	20
MTBE			50.0	54.5		ug/Kg		109	70 - 144	5	20
Toluene			50.0	47.5		ug/Kg		95	80 - 128	1	20
TAME			50.0	45.1		ug/Kg		90	70 - 140	5	20
Ethyl t-butyl ether			50.0	48.4		ug/Kg		97	70 - 130	6	20
TBA			1000	907		ug/Kg		91	63 - 130	2	20
DIPE			50.0	55.0		ug/Kg		110	70 - 131	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*108*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*108*		*58 - 140*

Lab Sample ID: LCSD 720-132920/8
Matrix: Solid
Analysis Batch: 132920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1000		ug/Kg		100	61 - 128	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*103*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
Toluene-d8 (Surr)	*110*		*58 - 140*

Lab Sample ID: MB 720-133021/5
Matrix: Solid
Analysis Batch: 133021

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			03/25/13 19:56	1
Ethylbenzene	ND		5.0		ug/Kg			03/25/13 19:56	1
MTBE	ND		5.0		ug/Kg			03/25/13 19:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			03/25/13 19:56	1
Toluene	ND		5.0		ug/Kg			03/25/13 19:56	1
Xylenes, Total	ND		10		ug/Kg			03/25/13 19:56	1
TAME	ND		5.0		ug/Kg			03/25/13 19:56	1
Ethyl t-butyl ether	ND		5.0		ug/Kg			03/25/13 19:56	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-133021/5
Matrix: Solid
Analysis Batch: 133021

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	ND		10		ug/Kg			03/25/13 19:56	1
DIPE	ND		5.0		ug/Kg			03/25/13 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*45 - 131*		*03/25/13 19:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*03/25/13 19:56*	*1*
Toluene-d8 (Surr)	*113*		*58 - 140*		*03/25/13 19:56*	*1*

Lab Sample ID: LCS 720-133021/6
Matrix: Solid
Analysis Batch: 133021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.6		ug/Kg		93	70 - 130
Ethylbenzene	50.0	47.0		ug/Kg		94	80 - 137
MTBE	50.0	62.7		ug/Kg		125	70 - 144
Toluene	50.0	45.6		ug/Kg		91	80 - 128
TAME	50.0	53.2		ug/Kg		106	70 - 140
Ethyl t-butyl ether	50.0	51.1		ug/Kg		102	70 - 130
TBA	1000	796		ug/Kg		80	63 - 130
DIPE	50.0	48.4		ug/Kg		97	70 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*112*		*58 - 140*

Lab Sample ID: LCS 720-133021/8
Matrix: Solid
Analysis Batch: 133021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1010		ug/Kg		101	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*115*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*113*		*58 - 140*

Lab Sample ID: LCSD 720-133021/7
Matrix: Solid
Analysis Batch: 133021

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	46.8		ug/Kg		94	70 - 130	0	20
Ethylbenzene	50.0	48.2		ug/Kg		96	80 - 137	3	20
MTBE	50.0	57.6		ug/Kg		115	70 - 144	9	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-133021/7
Matrix: Solid
Analysis Batch: 133021

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			50.0	47.1		ug/Kg		94	80 - 128	3	20
TAME			50.0	49.7		ug/Kg		99	70 - 140	7	20
Ethyl t-butyl ether			50.0	48.5		ug/Kg		97	70 - 130	5	20
TBA			1000	887		ug/Kg		89	63 - 130	11	20
DIPE			50.0	47.1		ug/Kg		94	70 - 131	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*112*		*58 - 140*

Lab Sample ID: LCSD 720-133021/9
Matrix: Solid
Analysis Batch: 133021

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1000		ug/Kg		100	61 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*113*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*113*		*58 - 140*

Lab Sample ID: MB 720-133087/4
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			03/26/13 15:14	1
Ethylbenzene	ND		5.0		ug/Kg			03/26/13 15:14	1
MTBE	ND		5.0		ug/Kg			03/26/13 15:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			03/26/13 15:14	1
Toluene	ND		5.0		ug/Kg			03/26/13 15:14	1
Xylenes, Total	ND		10		ug/Kg			03/26/13 15:14	1
TAME	ND		5.0		ug/Kg			03/26/13 15:14	1
Ethyl t-butyl ether	ND		5.0		ug/Kg			03/26/13 15:14	1
TBA	ND		10		ug/Kg			03/26/13 15:14	1
DIPE	ND		5.0		ug/Kg			03/26/13 15:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*45 - 131*		*03/26/13 15:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*03/26/13 15:14*	*1*
Toluene-d8 (Surr)	*107*		*58 - 140*		*03/26/13 15:14*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-133087/5
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.0		ug/Kg		96	70 - 130
Ethylbenzene	50.0	48.5		ug/Kg		97	80 - 137
MTBE	50.0	60.3		ug/Kg		121	70 - 144
Toluene	50.0	46.9		ug/Kg		94	80 - 128
TAME	50.0	50.2		ug/Kg		100	70 - 140
Ethyl t-butyl ether	50.0	50.5		ug/Kg		101	70 - 130
TBA	1000	873		ug/Kg		87	63 - 130
DIPE	50.0	50.6		ug/Kg		101	70 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*113*		*58 - 140*

Lab Sample ID: LCS 720-133087/7
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	971		ug/Kg		97	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*
Toluene-d8 (Surr)	*113*		*58 - 140*

Lab Sample ID: LCSD 720-133087/6
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	47.3		ug/Kg		95	70 - 130	1	20
Ethylbenzene	50.0	48.1		ug/Kg		96	80 - 137	1	20
MTBE	50.0	61.2		ug/Kg		122	70 - 144	2	20
Toluene	50.0	45.8		ug/Kg		92	80 - 128	2	20
TAME	50.0	50.9		ug/Kg		102	70 - 140	1	20
Ethyl t-butyl ether	50.0	50.8		ug/Kg		102	70 - 130	1	20
TBA	1000	858		ug/Kg		86	63 - 130	2	20
DIPE	50.0	50.8		ug/Kg		102	70 - 131	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*112*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-133087/8
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	988		ug/Kg		99	61 - 128	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*115*		*58 - 140*

Lab Sample ID: MB 720-133108/12-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
Ethylbenzene	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
MTBE	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
Gasoline Range Organics (GRO) -C5-C12	ND		25000		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
Toluene	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
EDB	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
Xylenes, Total	ND		1000		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
1,2-Dichloroethane	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
TAME	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
Ethyl t-butyl ether	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
TBA	ND		1000		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
DIPE	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100

Lab Sample ID: LCS 720-133108/13-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133108

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			5000	4560		ug/Kg		91	76 - 122
Ethylbenzene			5000	4630		ug/Kg		93	76 - 137
m-Xylene & p-Xylene			10000	10000		ug/Kg		100	71 - 142
MTBE			5000	5770		ug/Kg		115	71 - 146
Toluene			5000	4480		ug/Kg		90	77 - 120
EDB			5000	5030		ug/Kg		101	80 - 138
1,2-Dichloroethane			5000	4720		ug/Kg		94	67 - 126
TAME			5000	4750		ug/Kg		95	70 - 130
Ethyl t-butyl ether			5000	4990		ug/Kg		100	70 - 130
TBA			100000	82900		ug/Kg		83	70 - 130
DIPE			5000	4970		ug/Kg		99	70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-133108/15-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	100000	88700		ug/Kg		89	70 - 130

Lab Sample ID: LCSD 720-133108/14-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 133108

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	4700		ug/Kg		94	76 - 122	3	20
Ethylbenzene	5000	4780		ug/Kg		96	76 - 137	3	20
m-Xylene & p-Xylene	10000	10300		ug/Kg		103	71 - 142	3	20
MTBE	5000	5760		ug/Kg		115	71 - 146	0	20
Toluene	5000	4650		ug/Kg		93	77 - 120	4	20
EDB	5000	5010		ug/Kg		100	80 - 138	0	20
1,2-Dichloroethane	5000	4760		ug/Kg		95	67 - 126	1	20
TAME	5000	4790		ug/Kg		96	70 - 130	1	20
Ethyl t-butyl ether	5000	5060		ug/Kg		101	70 - 130	1	20
TBA	100000	85600		ug/Kg		86	70 - 130	3	20
DIPE	5000	5090		ug/Kg		102	70 - 130	2	20

Lab Sample ID: LCSD 720-133108/16-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 133108

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	100000	91700		ug/Kg		92	70 - 130	3	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-132874/1-A
Matrix: Solid
Analysis Batch: 132853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		03/22/13 10:27	03/22/13 23:26	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		03/22/13 10:27	03/22/13 23:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*40 - 130*	*03/22/13 10:27*	*03/22/13 23:26*	*1*

Lab Sample ID: LCS 720-132874/2-A
Matrix: Solid
Analysis Batch: 132853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.0	83.1		mg/Kg		100	50 - 150

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-132874/2-A
Matrix: Solid
Analysis Batch: 132853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132874

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*110*		*40 - 130*

Lab Sample ID: LCSD 720-132874/3-A
Matrix: Solid
Analysis Batch: 132853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 132874

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.7	80.4		mg/Kg		97	50 - 150	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*109*		*40 - 130*

GC/MS VOA

Analysis Batch: 132920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-1	MW9-2.5	Total/NA	Solid	8260B/CA_LUFT MS	132945
720-48478-2	MW9-4.5	Total/NA	Solid	8260B/CA_LUFT MS	132945
720-48478-3	MW9-9	Total/NA	Solid	8260B/CA_LUFT MS	132945
LCS 720-132920/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-132920/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-132920/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-132920/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-132920/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 132945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-1	MW9-2.5	Total/NA	Solid	5035	
720-48478-2	MW9-4.5	Total/NA	Solid	5035	
720-48478-3	MW9-9	Total/NA	Solid	5035	

Analysis Batch: 133021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-5	MW10-5	Total/NA	Solid	8260B/CA_LUFT MS	133033
720-48478-8	MW11-5	Total/NA	Solid	8260B/CA_LUFT MS	133033
720-48478-9	MW11-12.5	Total/NA	Solid	8260B/CA_LUFT MS	133033
LCS 720-133021/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-133021/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-133021/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-133021/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-133021/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 133033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-5	MW10-5	Total/NA	Solid	5035	
720-48478-8	MW11-5	Total/NA	Solid	5035	
720-48478-9	MW11-12.5	Total/NA	Solid	5035	

Analysis Batch: 133087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-4	MW10-2.5	Total/NA	Solid	8260B/CA_LUFT MS	133108
720-48478-6	MW10-12.5	Total/NA	Solid	8260B/CA_LUFT MS	133107

GC/MS VOA (Continued)

Analysis Batch: 133087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-7	MW11-2.5	Total/NA	Solid	8260B/CA_LUFT MS	133107
LCS 720-133087/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-133087/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-133108/13-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	133108
LCS 720-133108/15-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	133108
LCSD 720-133087/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-133087/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-133108/14-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	133108
LCSD 720-133108/16-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	133108
MB 720-133087/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-133108/12-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	133108

Prep Batch: 133107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-6	MW10-12.5	Total/NA	Solid	5035	
720-48478-7	MW11-2.5	Total/NA	Solid	5035	

Prep Batch: 133108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-4	MW10-2.5	Total/NA	Solid	5035	
LCS 720-133108/13-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 720-133108/15-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 720-133108/14-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 720-133108/16-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 720-133108/12-A	Method Blank	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 132853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-132874/2-A	Lab Control Sample	Total/NA	Solid	8015B	132874
LCSD 720-132874/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	132874
MB 720-132874/1-A	Method Blank	Total/NA	Solid	8015B	132874

Prep Batch: 132874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-1	MW9-2.5	Total/NA	Solid	3546	
720-48478-2	MW9-4.5	Total/NA	Solid	3546	
720-48478-3	MW9-9	Total/NA	Solid	3546	
720-48478-4	MW10-2.5	Total/NA	Solid	3546	
720-48478-5	MW10-5	Total/NA	Solid	3546	
720-48478-6	MW10-12.5	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 132874 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-7	MW11-2.5	Total/NA	Solid	3546	
720-48478-8	MW11-5	Total/NA	Solid	3546	
720-48478-9	MW11-12.5	Total/NA	Solid	3546	
LCS 720-132874/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-132874/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-132874/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 132984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48478-1	MW9-2.5	Total/NA	Solid	8015B	132874
720-48478-2	MW9-4.5	Total/NA	Solid	8015B	132874
720-48478-3	MW9-9	Total/NA	Solid	8015B	132874
720-48478-4	MW10-2.5	Total/NA	Solid	8015B	132874
720-48478-5	MW10-5	Total/NA	Solid	8015B	132874
720-48478-6	MW10-12.5	Total/NA	Solid	8015B	132874
720-48478-7	MW11-2.5	Total/NA	Solid	8015B	132874
720-48478-8	MW11-5	Total/NA	Solid	8015B	132874
720-48478-9	MW11-12.5	Total/NA	Solid	8015B	132874

Client Sample ID: MW9-2.5 — **Lab Sample ID: 720-48478-1**
Date Collected: 03/21/13 08:00 — **Matrix: Solid**
Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132945	03/22/13 21:05	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132920	03/22/13 22:55	AC	TAL SF
Total/NA	Prep	3546			132874	03/22/13 10:27	DT	TAL SF
Total/NA	Analysis	8015B		10	132984	03/25/13 15:06	DH	TAL SF

Client Sample ID: MW9-4.5 — **Lab Sample ID: 720-48478-2**
Date Collected: 03/21/13 08:05 — **Matrix: Solid**
Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132945	03/22/13 21:05	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132920	03/22/13 23:24	AC	TAL SF
Total/NA	Prep	3546			132874	03/22/13 10:27	DT	TAL SF
Total/NA	Analysis	8015B		1	132984	03/25/13 13:05	DH	TAL SF

Client Sample ID: MW9-9 — **Lab Sample ID: 720-48478-3**
Date Collected: 03/21/13 08:30 — **Matrix: Solid**
Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132945	03/22/13 21:05	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132920	03/22/13 23:53	AC	TAL SF
Total/NA	Prep	3546			132874	03/22/13 10:27	DT	TAL SF
Total/NA	Analysis	8015B		1	132984	03/25/13 13:29	DH	TAL SF

Client Sample ID: MW10-2.5 — **Lab Sample ID: 720-48478-4**
Date Collected: 03/21/13 09:15 — **Matrix: Solid**
Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133108	03/21/13 19:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		100	133087	03/27/13 00:54	AC	TAL SF
Total/NA	Prep	3546			132874	03/22/13 10:27	DT	TAL SF
Total/NA	Analysis	8015B		100	132984	03/25/13 15:31	DH	TAL SF

Client Sample ID: MW10-5 — **Lab Sample ID: 720-48478-5**
Date Collected: 03/21/13 09:35 — **Matrix: Solid**
Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133033	03/21/13 19:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133021	03/25/13 23:19	AC	TAL SF
Total/NA	Prep	3546			132874	03/22/13 10:27	DT	TAL SF

Client Sample ID: MW10-5

Lab Sample ID: 720-48478-5

Date Collected: 03/21/13 09:35

Matrix: Solid

Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	132984	03/25/13 13:53	DH	TAL SF

Client Sample ID: MW10-12.5

Lab Sample ID: 720-48478-6

Date Collected: 03/21/13 09:55

Matrix: Solid

Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133107	03/21/13 19:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 17:38	AC	TAL SF
Total/NA	Prep	3546			132874	03/22/13 10:27	DT	TAL SF
Total/NA	Analysis	8015B		1	132984	03/25/13 14:18	DH	TAL SF

Client Sample ID: MW11-2.5

Lab Sample ID: 720-48478-7

Date Collected: 03/21/13 13:05

Matrix: Solid

Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133107	03/21/13 19:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 18:07	AC	TAL SF
Total/NA	Prep	3546			132874	03/22/13 10:27	DT	TAL SF
Total/NA	Analysis	8015B		20	132984	03/25/13 15:55	DH	TAL SF

Client Sample ID: MW11-5

Lab Sample ID: 720-48478-8

Date Collected: 03/21/13 13:20

Matrix: Solid

Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133033	03/21/13 19:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133021	03/26/13 00:46	AC	TAL SF
Total/NA	Prep	3546			132874	03/22/13 10:27	DT	TAL SF
Total/NA	Analysis	8015B		10	132984	03/25/13 16:19	DH	TAL SF

Client Sample ID: MW11-12.5

Lab Sample ID: 720-48478-9

Date Collected: 03/21/13 13:50

Matrix: Solid

Date Received: 03/21/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133033	03/21/13 19:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133021	03/26/13 01:15	AC	TAL SF
Total/NA	Prep	3546			132874	03/22/13 10:27	DT	TAL SF
Total/NA	Analysis	8015B		1	132984	03/25/13 14:42	DH	TAL SF

Lab Chronicle

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48478-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-48478-1	MW9-2.5	Solid	03/21/13 08:00	03/21/13 17:30
720-48478-2	MW9-4.5	Solid	03/21/13 08:05	03/21/13 17:30
720-48478-3	MW9-9	Solid	03/21/13 08:30	03/21/13 17:30
720-48478-4	MW10-2.5	Solid	03/21/13 09:15	03/21/13 17:30
720-48478-5	MW10-5	Solid	03/21/13 09:35	03/21/13 17:30
720-48478-6	MW10-12.5	Solid	03/21/13 09:55	03/21/13 17:30
720-48478-7	MW11-2.5	Solid	03/21/13 13:05	03/21/13 17:30
720-48478-8	MW11-5	Solid	03/21/13 13:20	03/21/13 17:30
720-48478-9	MW11-12.5	Solid	03/21/13 13:50	03/21/13 17:30

ALS Environmental — Test America - Pleasanton

1317 South 13th Ave., Kelso, WA 98626 | 360.577.7222 | 800.695.7222

CHAIN OF CUSTODY

720-48478

SR# 144756

PAGE 1 OF 1 COC#

PROJECT NAME: Paco Pumps
PROJECT NUMBER: 04-PFT-004
PROJECT MANAGER: Paul Parmentier
COMPANY NAME: The Source Group
ADDRESS: 3478 Buskirk Ave Suite 100
CITY/STATE/ZIP: Pleasant Hill CA 94523
E-MAIL ADDRESS: pparmentier@thesourcegroup.net
PHONE #: 925-944-2856 FAX #: 925-944-2859
SAMPLER'S SIGNATURE: [signature]

Analysis columns: NUMBER OF CONTAINERS; Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐ SIM PAH☐; Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐; Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐; Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐; PCBs Aroclors☐ Congeners☐; Pesticides/Herbicides 608☐ 8081☐ 8141☐ 8151☐; Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐; Metals, Total or Dissolved (See List below); Cyanide☐ Hex-Chrom☐; (circle) pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS, Turb.; (circle) NH3-N, COD, TKN, TOC, DOC, NO2+NO3, T-Phos; TOX 9020☐ AOX 1650☐ 506☐; Alkalinity☐ CO3☐ HCO3☐; Dioxins/Furans 1613☐ 8290☐; Dissolved Gases RSK 175☐ Methane☐ CO2☐ Ethane☐ Ethene☐; TPHg, BTEX, Oxygenates 8260; TPHd/mo by 8015; REMARKS

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	TPHg, BTEX, Oxygenates 8260	TPHd/mo by 8015	REMARKS
MW9-2.5	3/21/13	0800		S	4	X	X	
MW9-4.5	↓	0805		S	4	X	X	
MW9-9	↓	0830		S	4	X	X	
MW10-2.5	↓	0915		S	4	X	X	
MW10-5	↓	0935		S	4	X	X	
MW10-12.5	↓	0955		S	4	X	X	
MW11-2.5	3/21/13	1305		S	4	X	X	
MW11-5	3/21/13	1320		S	4	X	X	
MW11-12.5	3/21/13	1350		S	4	X	X	

REPORT REQUIREMENTS

X I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
___ IV. Data Validation Report
___ V. EDD

INVOICE INFORMATION

P.O. # 04-PFT-004
Bill To: see above

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 day
X Standard (15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: ________ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
cc. results to pjorgensen@thesourcegroup.net

720-48478 Chain of Custody

☐ Sample Shipment contains USDA regulated soil s

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date/Time: 3/21/13 1624	Signature: [signature] Date/Time: 3-21-13 1624	Signature: [signature] Date/Time: 3-21-13 ~~1624~~ 1730	Signature: [signature] Date/Time: 3-21-13 1730
Printed Name: Talisha Jorgensen Firm: SGI	Printed Name: Ed Martinez Firm: TA-SF	Printed Name: Ed Martinez Firm: Test America	Printed Name: Mullen Firm: [illegible]

3.6°C

Login Sample Receipt Checklist

Client: The Source Group

Job Number: 720-48478-1

Login Number: 48478
List Number: 1
Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-48500-1
Client Project/Site: Paco Pumps

For:
The Source Group
3478 Buskirk Avenue, Suite 100
Pleasant Hill, California 94523

Attn: Mr. Paisha Jorgensen

Authorized for release by:
3/29/2013 3:33:06 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-48500-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-48500-1

Comments
No additional comments.

Receipt
The samples were received on 3/22/2013 4:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method(s) 8260B: Internal standard response for the following sample 48500-22 exceeded the lower control limit and confirmed by reanalysis. As such, the sample results may be biased high.

Method(s) 8260B: There was GRO out of range in the sample 48500-8 at low level and mid-level was below reporting limits.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SV-1-9 (720-48500-8).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-4-2.5 — Lab Sample ID: 720-48500-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	8.2		0.99		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	56		49		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-4-5.5 — Lab Sample ID: 720-48500-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1400		400		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	61		4.3		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Toluene	11		4.3		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	77		8.5		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	3.4		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-4-8 — Lab Sample ID: 720-48500-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	910		460		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	72		4.6		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	20		9.1		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
TBA	11		9.1		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	3.6		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-1-2.5 — Lab Sample ID: 720-48500-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	10		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-1-5 — Lab Sample ID: 720-48500-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	12		8.2		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	4800		210		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
TBA	12		8.2		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	950		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2000		990		mg/Kg	20		8015B	Total/NA

Client Sample ID: SV-2-2.5 — Lab Sample ID: 720-48500-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.8		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-2-5 — Lab Sample ID: 720-48500-7

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-2-5 (Continued) — Lab Sample ID: 720-48500-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.9		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-1-9 — Lab Sample ID: 720-48500-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1200		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2300		990		mg/Kg	20		8015B	Total/NA

Client Sample ID: SV-2-10 — Lab Sample ID: 720-48500-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	21000		19000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	8.0		1.0		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-3-3 — Lab Sample ID: 720-48500-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12		4.7		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	1900		210		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	140		3.0		mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	280		150		mg/Kg	3		8015B	Total/NA

Client Sample ID: SV-3-5 — Lab Sample ID: 720-48500-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	37		4.2		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2900		210		ug/Kg	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: SV-3-10 — Lab Sample ID: 720-48500-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	130000		20000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	480		400		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	12		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-5-3 — Lab Sample ID: 720-48500-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	640		240		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	100		3.0		mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160		150		mg/Kg	3		8015B	Total/NA

Client Sample ID: SV-5-5 — Lab Sample ID: 720-48500-14

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-5-5 (Continued) — Lab Sample ID: 720-48500-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1900		420		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	59000		21000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	640		420		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Toluene	12		4.1		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
TBA	10		8.2		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	3.8		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-5-9 — Lab Sample ID: 720-48500-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6600		400		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	640000		20000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	4400		400		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Toluene	2400		400		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	8400		800		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	17		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-6-3 — Lab Sample ID: 720-48500-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TBA	15		9.0		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	2400		910		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	22		0.99		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110		50		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-6-5.5 — Lab Sample ID: 720-48500-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	210		4.6		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	450		400		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
TBA	24		9.2		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	2000		790		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	2.6		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-6-9 — Lab Sample ID: 720-48500-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	920000		200000		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-6-9 (Continued) — Lab Sample ID: 720-48500-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	20000		4000		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	84000		8100		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	75		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-7-3 — Lab Sample ID: 720-48500-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.3		0.98		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-7-5.5 — Lab Sample ID: 720-48500-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.1		1.0		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-7-9 — Lab Sample ID: 720-48500-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.2		0.98		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-8-3 — Lab Sample ID: 720-48500-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	21		0.99		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	84		49		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-8-5.5 — Lab Sample ID: 720-48500-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.6		1.0		mg/Kg	1		8015B	Total/NA

Client Sample ID: SV-8-9 — Lab Sample ID: 720-48500-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.0		1.0		mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-4-2.5
Date Collected: 03/22/13 07:55
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		6.1		ug/Kg		03/22/13 18:15	03/23/13 14:16	1
Benzene	ND		6.1		ug/Kg		03/22/13 18:15	03/23/13 14:16	1
Ethylbenzene	ND		6.1		ug/Kg		03/22/13 18:15	03/23/13 14:16	1
Toluene	ND		6.1		ug/Kg		03/22/13 18:15	03/23/13 14:16	1
Xylenes, Total	ND		12		ug/Kg		03/22/13 18:15	03/23/13 14:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		310		ug/Kg		03/22/13 18:15	03/23/13 14:16	1
TBA	ND		12		ug/Kg		03/22/13 18:15	03/23/13 14:16	1
DIPE	ND		6.1		ug/Kg		03/22/13 18:15	03/23/13 14:16	1
TAME	ND		6.1		ug/Kg		03/22/13 18:15	03/23/13 14:16	1
Ethyl t-butyl ether	ND		6.1		ug/Kg		03/22/13 18:15	03/23/13 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*45 - 131*	*03/22/13 18:15*	*03/23/13 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*	*03/22/13 18:15*	*03/23/13 14:16*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*03/22/13 18:15*	*03/23/13 14:16*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.2**		0.99		mg/Kg		03/25/13 11:18	03/26/13 10:09	1
Motor Oil Range Organics [C24-C36]	**56**		49		mg/Kg		03/25/13 11:18	03/26/13 10:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*53*		*40 - 130*	*03/25/13 11:18*	*03/26/13 10:09*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-4-5.5
Date Collected: 03/22/13 08:05
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1400**		400		ug/Kg		03/22/13 18:15	03/27/13 01:23	100
MTBE	ND		4.3		ug/Kg		03/22/13 18:15	03/23/13 14:44	1
Gasoline Range Organics (GRO) -C5-C12	ND		20000		ug/Kg		03/22/13 18:15	03/27/13 01:23	100
Ethylbenzene	**61**		4.3		ug/Kg		03/22/13 18:15	03/23/13 14:44	1
Toluene	**11**		4.3		ug/Kg		03/22/13 18:15	03/23/13 14:44	1
Xylenes, Total	**77**		8.5		ug/Kg		03/22/13 18:15	03/23/13 14:44	1
TBA	ND		8.5		ug/Kg		03/22/13 18:15	03/23/13 14:44	1
DIPE	ND		4.3		ug/Kg		03/22/13 18:15	03/23/13 14:44	1
TAME	ND		4.3		ug/Kg		03/22/13 18:15	03/23/13 14:44	1
Ethyl t-butyl ether	ND		4.3		ug/Kg		03/22/13 18:15	03/23/13 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*66 - 148*	*03/22/13 18:15*	*03/27/13 01:23*	*100*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*	*03/22/13 18:15*	*03/27/13 01:23*	*100*
4-Bromofluorobenzene	*134*	*X*	*45 - 131*	*03/22/13 18:15*	*03/23/13 14:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*	*03/22/13 18:15*	*03/23/13 14:44*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*03/22/13 18:15*	*03/23/13 14:44*	*1*
Toluene-d8 (Surr)	*112*		*65 - 141*	*03/22/13 18:15*	*03/27/13 01:23*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.4**		0.99		mg/Kg		03/25/13 11:18	03/26/13 12:43	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/26/13 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*95*		*40 - 130*	*03/25/13 11:18*	*03/26/13 12:43*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-4-8
Date Collected: 03/22/13 08:30
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-3
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**910**		460		ug/Kg		03/22/13 18:15	03/27/13 01:51	100
MTBE	ND		4.6		ug/Kg		03/22/13 18:15	03/23/13 15:11	1
Gasoline Range Organics (GRO) -C5-C12	ND		23000		ug/Kg		03/22/13 18:15	03/27/13 01:51	100
Ethylbenzene	**72**		4.6		ug/Kg		03/22/13 18:15	03/23/13 15:11	1
Toluene	ND		4.6		ug/Kg		03/22/13 18:15	03/23/13 15:11	1
Xylenes, Total	**20**		9.1		ug/Kg		03/22/13 18:15	03/23/13 15:11	1
TBA	**11**		9.1		ug/Kg		03/22/13 18:15	03/23/13 15:11	1
DIPE	ND		4.6		ug/Kg		03/22/13 18:15	03/23/13 15:11	1
TAME	ND		4.6		ug/Kg		03/22/13 18:15	03/23/13 15:11	1
Ethyl t-butyl ether	ND		4.6		ug/Kg		03/22/13 18:15	03/23/13 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*66 - 148*	*03/22/13 18:15*	*03/27/13 01:51*	*100*
1,2-Dichloroethane-d4 (Surr)	*104*		*62 - 137*	*03/22/13 18:15*	*03/27/13 01:51*	*100*
4-Bromofluorobenzene	*187*	*X*	*45 - 131*	*03/22/13 18:15*	*03/23/13 15:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*	*03/22/13 18:15*	*03/23/13 15:11*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*	*03/22/13 18:15*	*03/23/13 15:11*	*1*
Toluene-d8 (Surr)	*113*		*65 - 141*	*03/22/13 18:15*	*03/27/13 01:51*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.6**		0.99		mg/Kg		03/25/13 11:18	03/26/13 13:08	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/26/13 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*40 - 130*	*03/25/13 11:18*	*03/26/13 13:08*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-1-2.5
Date Collected: 03/22/13 09:30
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-4
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		3.9		ug/Kg		03/22/13 18:15	03/23/13 15:39	1
Benzene	ND		3.9		ug/Kg		03/22/13 18:15	03/23/13 15:39	1
Ethylbenzene	ND		3.9		ug/Kg		03/22/13 18:15	03/23/13 15:39	1
Toluene	ND		3.9		ug/Kg		03/22/13 18:15	03/23/13 15:39	1
Xylenes, Total	ND		7.8		ug/Kg		03/22/13 18:15	03/23/13 15:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		03/22/13 18:15	03/23/13 15:39	1
TBA	ND		7.8		ug/Kg		03/22/13 18:15	03/23/13 15:39	1
DIPE	ND		3.9		ug/Kg		03/22/13 18:15	03/23/13 15:39	1
TAME	ND		3.9		ug/Kg		03/22/13 18:15	03/23/13 15:39	1
Ethyl t-butyl ether	ND		3.9		ug/Kg		03/22/13 18:15	03/23/13 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*45 - 131*	*03/22/13 18:15*	*03/23/13 15:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*	*03/22/13 18:15*	*03/23/13 15:39*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*03/22/13 18:15*	*03/23/13 15:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10**		0.99		mg/Kg		03/25/13 11:18	03/26/13 13:32	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		03/25/13 11:18	03/26/13 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*108*		*40 - 130*	*03/25/13 11:18*	*03/26/13 13:32*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-1-5
Date Collected: 03/22/13 09:40
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-5
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 16:07	1
Benzene	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 16:07	1
Ethylbenzene	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 16:07	1
Toluene	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 16:07	1
Xylenes, Total	**12**		8.2		ug/Kg		03/22/13 18:15	03/23/13 16:07	1
Gasoline Range Organics (GRO) -C5-C12	**4800**		210		ug/Kg		03/22/13 18:15	03/23/13 16:07	1
TBA	**12**		8.2		ug/Kg		03/22/13 18:15	03/23/13 16:07	1
DIPE	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 16:07	1
TAME	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 16:07	1
Ethyl t-butyl ether	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*45 - 131*	*03/22/13 18:15*	*03/23/13 16:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*	*03/22/13 18:15*	*03/23/13 16:07*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*03/22/13 18:15*	*03/23/13 16:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**950**		20		mg/Kg		03/25/13 11:18	03/26/13 15:16	20
Motor Oil Range Organics [C24-C36]	**2000**		990		mg/Kg		03/25/13 11:18	03/26/13 15:16	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*03/25/13 11:18*	*03/26/13 15:16*	*20*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-2-2.5
Date Collected: 03/22/13 10:00
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-6
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 16:35	1
Benzene	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 16:35	1
Ethylbenzene	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 16:35	1
Toluene	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 16:35	1
Xylenes, Total	ND		9.1		ug/Kg		03/22/13 18:15	03/23/13 16:35	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		03/22/13 18:15	03/23/13 16:35	1
TBA	ND		9.1		ug/Kg		03/22/13 18:15	03/23/13 16:35	1
DIPE	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 16:35	1
TAME	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 16:35	1
Ethyl t-butyl ether	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*71*		*45 - 131*	*03/22/13 18:15*	*03/23/13 16:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*	*03/22/13 18:15*	*03/23/13 16:35*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*03/22/13 18:15*	*03/23/13 16:35*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.8**		0.99		mg/Kg		03/25/13 11:18	03/28/13 12:14	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/28/13 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*110*		*40 - 130*	*03/25/13 11:18*	*03/28/13 12:14*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-2-5
Date Collected: 03/22/13 10:05
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-7
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 17:03	1
Benzene	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 17:03	1
Ethylbenzene	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 17:03	1
Toluene	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 17:03	1
Xylenes, Total	ND		8.9		ug/Kg		03/22/13 18:15	03/23/13 17:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		03/22/13 18:15	03/23/13 17:03	1
TBA	ND		8.9		ug/Kg		03/22/13 18:15	03/23/13 17:03	1
DIPE	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 17:03	1
TAME	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 17:03	1
Ethyl t-butyl ether	ND		4.5		ug/Kg		03/22/13 18:15	03/23/13 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*45 - 131*	*03/22/13 18:15*	*03/23/13 17:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*	*03/22/13 18:15*	*03/23/13 17:03*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*03/22/13 18:15*	*03/23/13 17:03*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.9**		0.99		mg/Kg		03/25/13 11:18	03/26/13 16:04	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		03/25/13 11:18	03/26/13 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*03/25/13 11:18*	*03/26/13 16:04*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-1-9
Date Collected: 03/22/13 10:30
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-8
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 17:31	1
Benzene	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 17:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		20000		ug/Kg		03/22/13 18:15	03/27/13 21:29	100
Ethylbenzene	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 17:31	1
Toluene	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 17:31	1
Xylenes, Total	ND		8.1		ug/Kg		03/22/13 18:15	03/23/13 17:31	1
TBA	ND		8.1		ug/Kg		03/22/13 18:15	03/23/13 17:31	1
DIPE	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 17:31	1
TAME	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 17:31	1
Ethyl t-butyl ether	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*66 - 148*	*03/22/13 18:15*	*03/27/13 21:29*	*100*
1,2-Dichloroethane-d4 (Surr)	*113*		*62 - 137*	*03/22/13 18:15*	*03/27/13 21:29*	*100*
4-Bromofluorobenzene	*133*	*X*	*45 - 131*	*03/22/13 18:15*	*03/23/13 17:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*	*03/22/13 18:15*	*03/23/13 17:31*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*03/22/13 18:15*	*03/23/13 17:31*	*1*
Toluene-d8 (Surr)	*110*		*65 - 141*	*03/22/13 18:15*	*03/27/13 21:29*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1200**		20		mg/Kg		03/25/13 11:18	03/28/13 14:00	20
Motor Oil Range Organics [C24-C36]	**2300**		990		mg/Kg		03/25/13 11:18	03/28/13 14:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D X*	*40 - 130*	*03/25/13 11:18*	*03/28/13 14:00*	*20*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-2-10
Date Collected: 03/22/13 10:50
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-9
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		380		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
Gasoline Range Organics (GRO) -C5-C12	**21000**		19000		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
Ethylbenzene	ND		380		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
MTBE	ND		380		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
TAME	ND		380		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
Ethyl t-butyl ether	ND		380		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
Toluene	ND		380		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
EDB	ND		380		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
Xylenes, Total	ND		770		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
1,2-Dichloroethane	ND		380		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
TBA	ND		770		ug/Kg		03/22/13 18:15	03/27/13 11:27	100
DIPE	ND		380		ug/Kg		03/22/13 18:15	03/27/13 11:27	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*66 - 148*	*03/22/13 18:15*	*03/27/13 11:27*	*100*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*	*03/22/13 18:15*	*03/27/13 11:27*	*100*
Toluene-d8 (Surr)	*102*		*65 - 141*	*03/22/13 18:15*	*03/27/13 11:27*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.0**		1.0		mg/Kg		03/25/13 11:18	03/28/13 10:37	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/28/13 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*83*		*40 - 130*	*03/25/13 11:18*	*03/28/13 10:37*	*1*

Client Sample ID: SV-3-3
Date Collected: 03/22/13 11:45
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-10
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.7		ug/Kg		03/22/13 18:15	03/23/13 18:27	1
Benzene	**12**		4.7		ug/Kg		03/22/13 18:15	03/23/13 18:27	1
Ethylbenzene	ND		4.7		ug/Kg		03/22/13 18:15	03/23/13 18:27	1
Toluene	ND		4.7		ug/Kg		03/22/13 18:15	03/23/13 18:27	1
Xylenes, Total	ND		9.4		ug/Kg		03/22/13 18:15	03/23/13 18:27	1
Gasoline Range Organics (GRO) -C5-C12	**1900**		210		ug/Kg		03/22/13 18:15	03/26/13 22:00	1
TBA	ND		9.4		ug/Kg		03/22/13 18:15	03/23/13 18:27	1
DIPE	ND		4.7		ug/Kg		03/22/13 18:15	03/23/13 18:27	1
TAME	ND		4.7		ug/Kg		03/22/13 18:15	03/23/13 18:27	1
Ethyl t-butyl ether	ND		4.7		ug/Kg		03/22/13 18:15	03/23/13 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*	*03/22/13 18:15*	*03/23/13 18:27*	*1*
4-Bromofluorobenzene	*91*		*45 - 131*	*03/22/13 18:15*	*03/26/13 22:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*	*03/22/13 18:15*	*03/23/13 18:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*03/22/13 18:15*	*03/26/13 22:00*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*03/22/13 18:15*	*03/23/13 18:27*	*1*
Toluene-d8 (Surr)	*109*		*58 - 140*	*03/22/13 18:15*	*03/26/13 22:00*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**		3.0		mg/Kg		03/25/13 11:18	03/28/13 13:13	3
Motor Oil Range Organics [C24-C36]	**280**		150		mg/Kg		03/25/13 11:18	03/28/13 13:13	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*54*		*40 - 130*	*03/25/13 11:18*	*03/28/13 13:13*	*3*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-3-5
Date Collected: 03/22/13 11:55
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-11
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.2		ug/Kg		03/22/13 18:15	03/23/13 18:55	1
Benzene	**37**		4.2		ug/Kg		03/22/13 18:15	03/23/13 18:55	1
Ethylbenzene	ND		4.2		ug/Kg		03/22/13 18:15	03/23/13 18:55	1
Toluene	ND		4.2		ug/Kg		03/22/13 18:15	03/23/13 18:55	1
Xylenes, Total	ND		8.4		ug/Kg		03/22/13 18:15	03/23/13 18:55	1
Gasoline Range Organics (GRO) -C5-C12	**2900**		210		ug/Kg		03/22/13 18:15	03/23/13 18:55	1
TBA	ND		8.4		ug/Kg		03/22/13 18:15	03/23/13 18:55	1
DIPE	ND		4.2		ug/Kg		03/22/13 18:15	03/23/13 18:55	1
TAME	ND		4.2		ug/Kg		03/22/13 18:15	03/23/13 18:55	1
Ethyl t-butyl ether	ND		4.2		ug/Kg		03/22/13 18:15	03/23/13 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*126*		*45 - 131*	*03/22/13 18:15*	*03/23/13 18:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*	*03/22/13 18:15*	*03/23/13 18:55*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*03/22/13 18:15*	*03/23/13 18:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		03/25/13 11:18	03/26/13 17:42	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/26/13 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*104*		*40 - 130*	*03/25/13 11:18*	*03/26/13 17:42*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-3-10
Date Collected: 03/22/13 12:05
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		400		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
Gasoline Range Organics (GRO) -C5-C12	**130000**		20000		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
Ethylbenzene	**480**		400		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
MTBE	ND		400		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
TAME	ND		400		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
Ethyl t-butyl ether	ND		400		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
Toluene	ND		400		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
EDB	ND		400		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
Xylenes, Total	ND		790		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
1,2-Dichloroethane	ND		400		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
TBA	ND		790		ug/Kg		03/22/13 18:15	03/27/13 11:56	100
DIPE	ND		400		ug/Kg		03/22/13 18:15	03/27/13 11:56	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*66 - 148*	*03/22/13 18:15*	*03/27/13 11:56*	*100*
1,2-Dichloroethane-d4 (Surr)	*99*		*62 - 137*	*03/22/13 18:15*	*03/27/13 11:56*	*100*
Toluene-d8 (Surr)	*101*		*65 - 141*	*03/22/13 18:15*	*03/27/13 11:56*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12**		0.99		mg/Kg		03/25/13 11:18	03/26/13 18:06	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/26/13 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*03/25/13 11:18*	*03/26/13 18:06*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-5-3
Date Collected: 03/22/13 12:50
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-13
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.4		ug/Kg		03/22/13 18:15	03/23/13 19:51	1
Benzene	ND		4.4		ug/Kg		03/22/13 18:15	03/23/13 19:51	1
Ethylbenzene	ND		4.4		ug/Kg		03/22/13 18:15	03/23/13 19:51	1
Toluene	ND		4.4		ug/Kg		03/22/13 18:15	03/23/13 19:51	1
Xylenes, Total	ND		8.8		ug/Kg		03/22/13 18:15	03/23/13 19:51	1
Gasoline Range Organics (GRO) -C5-C12	**640**		240		ug/Kg		03/22/13 18:15	03/26/13 21:31	1
TBA	ND		8.8		ug/Kg		03/22/13 18:15	03/23/13 19:51	1
DIPE	ND		4.4		ug/Kg		03/22/13 18:15	03/23/13 19:51	1
TAME	ND		4.4		ug/Kg		03/22/13 18:15	03/23/13 19:51	1
Ethyl t-butyl ether	ND		4.4		ug/Kg		03/22/13 18:15	03/23/13 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*124*		*45 - 131*	*03/22/13 18:15*	*03/23/13 19:51*	*1*
4-Bromofluorobenzene	*105*		*45 - 131*	*03/22/13 18:15*	*03/26/13 21:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*	*03/22/13 18:15*	*03/23/13 19:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*60 - 140*	*03/22/13 18:15*	*03/26/13 21:31*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*03/22/13 18:15*	*03/23/13 19:51*	*1*
Toluene-d8 (Surr)	*111*		*58 - 140*	*03/22/13 18:15*	*03/26/13 21:31*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**100**		3.0		mg/Kg		03/25/13 11:18	03/28/13 12:44	3
Motor Oil Range Organics [C24-C36]	**160**		150		mg/Kg		03/25/13 11:18	03/28/13 12:44	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*50*		*40 - 130*	*03/25/13 11:18*	*03/28/13 12:44*	*3*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-5-5
Date Collected: 03/22/13 13:10
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-14
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1900**		420		ug/Kg		03/22/13 18:15	03/27/13 21:58	100
MTBE	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 20:19	1
Gasoline Range Organics (GRO) -C5-C12	**59000**		21000		ug/Kg		03/22/13 18:15	03/27/13 21:58	100
Ethylbenzene	**640**		420		ug/Kg		03/22/13 18:15	03/27/13 21:58	100
Toluene	**12**		4.1		ug/Kg		03/22/13 18:15	03/23/13 20:19	1
TBA	**10**		8.2		ug/Kg		03/22/13 18:15	03/23/13 20:19	1
DIPE	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 20:19	1
Xylenes, Total	ND		840		ug/Kg		03/22/13 18:15	03/27/13 21:58	100
TAME	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 20:19	1
Ethyl t-butyl ether	ND		4.1		ug/Kg		03/22/13 18:15	03/23/13 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*159*	*X*	*45 - 131*	*03/22/13 18:15*	*03/23/13 20:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 140*	*03/22/13 18:15*	*03/23/13 20:19*	*1*
4-Bromofluorobenzene	*111*		*66 - 148*	*03/22/13 18:15*	*03/27/13 21:58*	*100*
Toluene-d8 (Surr)	*100*		*58 - 140*	*03/22/13 18:15*	*03/23/13 20:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*62 - 137*	*03/22/13 18:15*	*03/27/13 21:58*	*100*
Toluene-d8 (Surr)	*113*		*65 - 141*	*03/22/13 18:15*	*03/27/13 21:58*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.8**		0.99		mg/Kg		03/25/13 11:18	03/28/13 11:07	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/28/13 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*91*		*40 - 130*	*03/25/13 11:18*	*03/28/13 11:07*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-5-9
Date Collected: 03/22/13 13:20
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-15
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6600**		400		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
Gasoline Range Organics (GRO) -C5-C12	**640000**		20000		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
Ethylbenzene	**4400**		400		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
MTBE	ND		400		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
TAME	ND		400		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
Ethyl t-butyl ether	ND		400		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
Toluene	**2400**		400		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
EDB	ND		400		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
Xylenes, Total	**8400**		800		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
1,2-Dichloroethane	ND		400		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
TBA	ND		800		ug/Kg		03/22/13 18:15	03/27/13 23:25	100
DIPE	ND		400		ug/Kg		03/22/13 18:15	03/27/13 23:25	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*119*		*66 - 148*	*03/22/13 18:15*	*03/27/13 23:25*	*100*
1,2-Dichloroethane-d4 (Surr)	*113*		*62 - 137*	*03/22/13 18:15*	*03/27/13 23:25*	*100*
Toluene-d8 (Surr)	*116*		*65 - 141*	*03/22/13 18:15*	*03/27/13 23:25*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**		0.99		mg/Kg		03/25/13 11:18	03/26/13 15:40	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/26/13 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*86*		*40 - 130*	*03/25/13 11:18*	*03/26/13 15:40*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-6-3
Date Collected: 03/22/13 14:35
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-16
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		450		ug/Kg		03/22/13 18:15	03/27/13 22:27	100
MTBE	ND		4.5		ug/Kg		03/22/13 18:15	03/25/13 13:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		23000		ug/Kg		03/22/13 18:15	03/27/13 22:27	100
Ethylbenzene	ND		450		ug/Kg		03/22/13 18:15	03/27/13 22:27	100
Toluene	ND		450		ug/Kg		03/22/13 18:15	03/27/13 22:27	100
TBA	**15**		9.0		ug/Kg		03/22/13 18:15	03/25/13 13:25	1
DIPE	ND		4.5		ug/Kg		03/22/13 18:15	03/25/13 13:25	1
Xylenes, Total	**2400**		910		ug/Kg		03/22/13 18:15	03/27/13 22:27	100
TAME	ND		4.5		ug/Kg		03/22/13 18:15	03/25/13 13:25	1
Ethyl t-butyl ether	ND		4.5		ug/Kg		03/22/13 18:15	03/25/13 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*76*		*45 - 131*	*03/22/13 18:15*	*03/25/13 13:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*	*03/22/13 18:15*	*03/25/13 13:25*	*1*
4-Bromofluorobenzene	*104*		*66 - 148*	*03/22/13 18:15*	*03/27/13 22:27*	*100*
1,2-Dichloroethane-d4 (Surr)	*112*		*62 - 137*	*03/22/13 18:15*	*03/27/13 22:27*	*100*
Toluene-d8 (Surr)	*111*		*58 - 140*	*03/22/13 18:15*	*03/25/13 13:25*	*1*
Toluene-d8 (Surr)	*113*		*65 - 141*	*03/22/13 18:15*	*03/27/13 22:27*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**22**		0.99		mg/Kg		03/25/13 11:18	03/26/13 16:04	1
Motor Oil Range Organics [C24-C36]	**110**		50		mg/Kg		03/25/13 11:18	03/26/13 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*59*		*40 - 130*	*03/25/13 11:18*	*03/26/13 16:04*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-6-5.5
Date Collected: 03/22/13 14:50
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-17
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.6		ug/Kg		03/22/13 18:15	03/25/13 13:54	1
Benzene	**210**		4.6		ug/Kg		03/22/13 18:15	03/25/13 13:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		20000		ug/Kg		03/22/13 18:15	03/27/13 22:56	100
Ethylbenzene	**450**		400		ug/Kg		03/22/13 18:15	03/27/13 22:56	100
Toluene	ND		4.6		ug/Kg		03/22/13 18:15	03/25/13 13:54	1
TBA	**24**		9.2		ug/Kg		03/22/13 18:15	03/25/13 13:54	1
DIPE	ND		4.6		ug/Kg		03/22/13 18:15	03/25/13 13:54	1
Xylenes, Total	**2000**		790		ug/Kg		03/22/13 18:15	03/27/13 22:56	100
TAME	ND		4.6		ug/Kg		03/22/13 18:15	03/25/13 13:54	1
Ethyl t-butyl ether	ND		4.6		ug/Kg		03/22/13 18:15	03/25/13 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*45 - 131*	*03/22/13 18:15*	*03/25/13 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*	*03/22/13 18:15*	*03/25/13 13:54*	*1*
Toluene-d8 (Surr)	*113*		*58 - 140*	*03/22/13 18:15*	*03/25/13 13:54*	*1*
4-Bromofluorobenzene	*105*		*66 - 148*	*03/22/13 18:15*	*03/27/13 22:56*	*100*
1,2-Dichloroethane-d4 (Surr)	*112*		*62 - 137*	*03/22/13 18:15*	*03/27/13 22:56*	*100*
Toluene-d8 (Surr)	*113*		*65 - 141*	*03/22/13 18:15*	*03/27/13 22:56*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.6**		0.99		mg/Kg		03/25/13 11:18	03/28/13 11:45	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/28/13 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*03/25/13 11:18*	*03/28/13 11:45*	*1*

Client Sample ID: SV-6-9
Date Collected: 03/22/13 15:10
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-18
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
Gasoline Range Organics (GRO) -C5-C12	**920000**		200000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
Ethylbenzene	**20000**		4000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
MTBE	ND		4000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
TAME	ND		4000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
Ethyl t-butyl ether	ND		4000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
Toluene	ND		4000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
EDB	ND		4000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
Xylenes, Total	**84000**		8100		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
1,2-Dichloroethane	ND		4000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
TBA	ND		8100		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000
DIPE	ND		4000		ug/Kg		03/22/13 18:15	03/27/13 12:53	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*66 - 148*	*03/22/13 18:15*	*03/27/13 12:53*	*1000*
1,2-Dichloroethane-d4 (Surr)	*99*		*62 - 137*	*03/22/13 18:15*	*03/27/13 12:53*	*1000*
Toluene-d8 (Surr)	*102*		*65 - 141*	*03/22/13 18:15*	*03/27/13 12:53*	*1000*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**75**		0.99		mg/Kg		03/25/13 11:18	03/26/13 16:53	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/26/13 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*69*		*40 - 130*	*03/25/13 11:18*	*03/26/13 16:53*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-7-3
Date Collected: 03/22/13 14:45
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-19
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.1		ug/Kg		03/22/13 18:15	03/26/13 21:02	1
Benzene	ND		4.1		ug/Kg		03/22/13 18:15	03/26/13 21:02	1
Ethylbenzene	ND		4.1		ug/Kg		03/22/13 18:15	03/26/13 21:02	1
Toluene	ND		4.1		ug/Kg		03/22/13 18:15	03/26/13 21:02	1
Xylenes, Total	ND		8.3		ug/Kg		03/22/13 18:15	03/26/13 21:02	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		03/22/13 18:15	03/26/13 21:02	1
TBA	ND		8.3		ug/Kg		03/22/13 18:15	03/26/13 21:02	1
DIPE	ND		4.1		ug/Kg		03/22/13 18:15	03/26/13 21:02	1
TAME	ND		4.1		ug/Kg		03/22/13 18:15	03/26/13 21:02	1
Ethyl t-butyl ether	ND		4.1		ug/Kg		03/22/13 18:15	03/26/13 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*03/22/13 18:15*	*03/26/13 21:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*60 - 140*	*03/22/13 18:15*	*03/26/13 21:02*	*1*
Toluene-d8 (Surr)	*103*		*58 - 140*	*03/22/13 18:15*	*03/26/13 21:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.3**		0.98		mg/Kg		03/25/13 11:18	03/26/13 17:17	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		03/25/13 11:18	03/26/13 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*65*		*40 - 130*	*03/25/13 11:18*	*03/26/13 17:17*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-7-5.5
Date Collected: 03/22/13 15:00
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-20
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 15:21	1
Benzene	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 15:21	1
Ethylbenzene	ND		4.7		ug/Kg		03/22/13 18:15	03/26/13 20:32	1
Toluene	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 15:21	1
Xylenes, Total	ND		9.4		ug/Kg		03/22/13 18:15	03/26/13 20:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		03/22/13 18:15	03/26/13 20:32	1
TBA	ND		8.6		ug/Kg		03/22/13 18:15	03/25/13 15:21	1
DIPE	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 15:21	1
TAME	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 15:21	1
Ethyl t-butyl ether	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*03/22/13 18:15*	*03/25/13 15:21*	*1*
4-Bromofluorobenzene	*80*		*45 - 131*	*03/22/13 18:15*	*03/26/13 20:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*	*03/22/13 18:15*	*03/25/13 15:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*	*03/22/13 18:15*	*03/26/13 20:32*	*1*
Toluene-d8 (Surr)	*105*		*58 - 140*	*03/22/13 18:15*	*03/25/13 15:21*	*1*
Toluene-d8 (Surr)	*106*		*58 - 140*	*03/22/13 18:15*	*03/26/13 20:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.1**		1.0		mg/Kg		03/25/13 11:18	03/26/13 18:06	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/26/13 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*03/25/13 11:18*	*03/26/13 18:06*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-7-9
Date Collected: 03/22/13 15:25
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-21
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 15:50	1
Benzene	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 15:50	1
Ethylbenzene	ND		3.7		ug/Kg		03/22/13 18:15	03/26/13 20:03	1
Toluene	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 15:50	1
Xylenes, Total	ND		7.5		ug/Kg		03/22/13 18:15	03/26/13 20:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		03/22/13 18:15	03/26/13 20:03	1
TBA	ND		8.1		ug/Kg		03/22/13 18:15	03/25/13 15:50	1
DIPE	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 15:50	1
TAME	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 15:50	1
Ethyl t-butyl ether	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*45 - 131*	*03/22/13 18:15*	*03/25/13 15:50*	*1*
4-Bromofluorobenzene	*91*		*45 - 131*	*03/22/13 18:15*	*03/26/13 20:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*03/22/13 18:15*	*03/25/13 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*03/22/13 18:15*	*03/26/13 20:03*	*1*
Toluene-d8 (Surr)	*110*		*58 - 140*	*03/22/13 18:15*	*03/25/13 15:50*	*1*
Toluene-d8 (Surr)	*104*		*58 - 140*	*03/22/13 18:15*	*03/26/13 20:03*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.2**		0.98		mg/Kg		03/27/13 14:40	03/28/13 09:45	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		03/27/13 14:40	03/28/13 09:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*86*		*40 - 130*	*03/27/13 14:40*	*03/28/13 09:45*	*1*

Client Sample ID: SV-8-3
Date Collected: 03/22/13 15:30
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-22
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 16:18	1
Benzene	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 16:18	1
Ethylbenzene	ND		4.1		ug/Kg		03/22/13 18:15	03/26/13 19:34	1
Toluene	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 16:18	1
Xylenes, Total	ND		8.2		ug/Kg		03/22/13 18:15	03/26/13 19:34	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		03/22/13 18:15	03/26/13 19:34	1
TBA	ND		8.6		ug/Kg		03/22/13 18:15	03/25/13 16:18	1
DIPE	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 16:18	1
TAME	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 16:18	1
Ethyl t-butyl ether	ND		4.3		ug/Kg		03/22/13 18:15	03/25/13 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*63*		*45 - 131*	*03/22/13 18:15*	*03/25/13 16:18*	*1*
4-Bromofluorobenzene	*63*		*45 - 131*	*03/22/13 18:15*	*03/26/13 19:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*	*03/22/13 18:15*	*03/25/13 16:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*	*03/22/13 18:15*	*03/26/13 19:34*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*03/22/13 18:15*	*03/25/13 16:18*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*03/22/13 18:15*	*03/26/13 19:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**21**		0.99		mg/Kg		03/25/13 17:34	03/26/13 12:47	1
Motor Oil Range Organics [C24-C36]	**84**		49		mg/Kg		03/25/13 17:34	03/26/13 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*64*		*40 - 130*	*03/25/13 17:34*	*03/26/13 12:47*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-8-5.5
Date Collected: 03/22/13 15:35
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-23
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.2		ug/Kg		03/22/13 18:15	03/25/13 16:47	1
Benzene	ND		4.2		ug/Kg		03/22/13 18:15	03/25/13 16:47	1
Ethylbenzene	ND		4.2		ug/Kg		03/22/13 18:15	03/25/13 16:47	1
Toluene	ND		4.2		ug/Kg		03/22/13 18:15	03/25/13 16:47	1
Xylenes, Total	ND		8.2		ug/Kg		03/22/13 18:15	03/26/13 19:06	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		03/22/13 18:15	03/26/13 19:06	1
TBA	ND		8.4		ug/Kg		03/22/13 18:15	03/25/13 16:47	1
DIPE	ND		4.2		ug/Kg		03/22/13 18:15	03/25/13 16:47	1
TAME	ND		4.2		ug/Kg		03/22/13 18:15	03/25/13 16:47	1
Ethyl t-butyl ether	ND		4.2		ug/Kg		03/22/13 18:15	03/25/13 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*45 - 131*	*03/22/13 18:15*	*03/25/13 16:47*	*1*
4-Bromofluorobenzene	*93*		*45 - 131*	*03/22/13 18:15*	*03/26/13 19:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*03/22/13 18:15*	*03/25/13 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*	*03/22/13 18:15*	*03/26/13 19:06*	*1*
Toluene-d8 (Surr)	*106*		*58 - 140*	*03/22/13 18:15*	*03/25/13 16:47*	*1*
Toluene-d8 (Surr)	*105*		*58 - 140*	*03/22/13 18:15*	*03/26/13 19:06*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.6**		1.0		mg/Kg		03/25/13 17:34	03/26/13 13:16	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 17:34	03/26/13 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*89*		*40 - 130*	*03/25/13 17:34*	*03/26/13 13:16*	*1*

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Client Sample ID: SV-8-9
Date Collected: 03/22/13 15:40
Date Received: 03/22/13 16:45

Lab Sample ID: 720-48500-24
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 17:16	1
Benzene	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 17:16	1
Ethylbenzene	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 17:16	1
Toluene	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 17:16	1
Xylenes, Total	ND		7.8		ug/Kg		03/22/13 18:15	03/26/13 18:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		03/22/13 18:15	03/25/13 17:16	1
TBA	ND		8.1		ug/Kg		03/22/13 18:15	03/25/13 17:16	1
DIPE	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 17:16	1
TAME	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 17:16	1
Ethyl t-butyl ether	ND		4.0		ug/Kg		03/22/13 18:15	03/25/13 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*45 - 131*	*03/22/13 18:15*	*03/25/13 17:16*	*1*
4-Bromofluorobenzene	*99*		*45 - 131*	*03/22/13 18:15*	*03/26/13 18:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*03/22/13 18:15*	*03/25/13 17:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*03/22/13 18:15*	*03/26/13 18:37*	*1*
Toluene-d8 (Surr)	*105*		*58 - 140*	*03/22/13 18:15*	*03/25/13 17:16*	*1*
Toluene-d8 (Surr)	*108*		*58 - 140*	*03/22/13 18:15*	*03/26/13 18:37*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.0**		1.0		mg/Kg		03/25/13 17:34	03/26/13 13:45	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 17:34	03/26/13 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*94*		*40 - 130*	*03/25/13 17:34*	*03/26/13 13:45*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-132954/4
Matrix: Solid
Analysis Batch: 132954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			03/23/13 11:27	1
Ethylbenzene	ND		5.0		ug/Kg			03/23/13 11:27	1
MTBE	ND		5.0		ug/Kg			03/23/13 11:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			03/23/13 11:27	1
Toluene	ND		5.0		ug/Kg			03/23/13 11:27	1
Xylenes, Total	ND		10		ug/Kg			03/23/13 11:27	1
TAME	ND		5.0		ug/Kg			03/23/13 11:27	1
Ethyl t-butyl ether	ND		5.0		ug/Kg			03/23/13 11:27	1
TBA	ND		10		ug/Kg			03/23/13 11:27	1
DIPE	ND		5.0		ug/Kg			03/23/13 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*45 - 131*		*03/23/13 11:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*		*03/23/13 11:27*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*		*03/23/13 11:27*	*1*

Lab Sample ID: LCS 720-132954/5
Matrix: Solid
Analysis Batch: 132954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.6		ug/Kg		93	70 - 130
Ethylbenzene	50.0	45.5		ug/Kg		91	80 - 137
MTBE	50.0	57.4		ug/Kg		115	70 - 144
m-Xylene & p-Xylene	100	94.6		ug/Kg		95	70 - 146
o-Xylene	50.0	52.2		ug/Kg		104	70 - 140
Toluene	50.0	44.9		ug/Kg		90	80 - 128
TAME	50.0	59.5		ug/Kg		119	70 - 140
Ethyl t-butyl ether	50.0	58.0		ug/Kg		116	70 - 130
TBA	1000	991		ug/Kg		99	63 - 130
DIPE	50.0	52.6		ug/Kg		105	70 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: LCS 720-132954/7
Matrix: Solid
Analysis Batch: 132954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	905		ug/Kg		91	61 - 128

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-132954/7
Matrix: Solid
Analysis Batch: 132954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*107*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-132954/6
Matrix: Solid
Analysis Batch: 132954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	46.9		ug/Kg		94	70 - 130	1	20
Ethylbenzene			50.0	45.3		ug/Kg		91	80 - 137	1	20
MTBE			50.0	58.3		ug/Kg		117	70 - 144	2	20
m-Xylene & p-Xylene			100	94.3		ug/Kg		94	70 - 146	0	20
o-Xylene			50.0	52.5		ug/Kg		105	70 - 140	1	20
Toluene			50.0	45.1		ug/Kg		90	80 - 128	1	20
TAME			50.0	60.4		ug/Kg		121	70 - 140	2	20
Ethyl t-butyl ether			50.0	59.3		ug/Kg		119	70 - 130	2	20
TBA			1000	1030		ug/Kg		103	63 - 130	4	20
DIPE			50.0	53.7		ug/Kg		107	70 - 131	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*104*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-132954/8
Matrix: Solid
Analysis Batch: 132954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	905		ug/Kg		90	61 - 128	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*107*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: MB 720-132972/5
Matrix: Solid
Analysis Batch: 132972

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			03/25/13 09:30	1
Ethylbenzene	ND		5.0		ug/Kg			03/25/13 09:30	1
MTBE	ND		5.0		ug/Kg			03/25/13 09:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			03/25/13 09:30	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-132972/5
Matrix: Solid
Analysis Batch: 132972

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0		ug/Kg			03/25/13 09:30	1
Xylenes, Total	ND		10		ug/Kg			03/25/13 09:30	1
TAME	ND		5.0		ug/Kg			03/25/13 09:30	1
Ethyl t-butyl ether	ND		5.0		ug/Kg			03/25/13 09:30	1
TBA	ND		10		ug/Kg			03/25/13 09:30	1
DIPE	ND		5.0		ug/Kg			03/25/13 09:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*		*03/25/13 09:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*03/25/13 09:30*	*1*
Toluene-d8 (Surr)	*102*		*58 - 140*		*03/25/13 09:30*	*1*

Lab Sample ID: LCS 720-132972/6
Matrix: Solid
Analysis Batch: 132972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	52.6		ug/Kg		105	70 - 130
Ethylbenzene	50.0	53.1		ug/Kg		106	80 - 137
MTBE	50.0	63.3		ug/Kg		127	70 - 144
m-Xylene & p-Xylene	100	115		ug/Kg		115	70 - 146
o-Xylene	50.0	59.0		ug/Kg		118	70 - 140
Toluene	50.0	50.9		ug/Kg		102	80 - 128
TAME	50.0	52.1		ug/Kg		104	70 - 140
Ethyl t-butyl ether	50.0	54.4		ug/Kg		109	70 - 130
TBA	1000	984		ug/Kg		98	63 - 130
DIPE	50.0	57.8		ug/Kg		116	70 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*109*		*58 - 140*

Lab Sample ID: LCS 720-132972/8
Matrix: Solid
Analysis Batch: 132972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1060		ug/Kg		106	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*111*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-132972/7
Matrix: Solid
Analysis Batch: 132972

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	51.7		ug/Kg		103	70 - 130	2	20
Ethylbenzene			50.0	52.3		ug/Kg		105	80 - 137	2	20
MTBE			50.0	65.2		ug/Kg		130	70 - 144	3	20
m-Xylene & p-Xylene			100	113		ug/Kg		113	70 - 146	1	20
o-Xylene			50.0	58.0		ug/Kg		116	70 - 140	2	20
Toluene			50.0	50.6		ug/Kg		101	80 - 128	1	20
TAME			50.0	52.9		ug/Kg		106	70 - 140	2	20
Ethyl t-butyl ether			50.0	54.2		ug/Kg		108	70 - 130	0	20
TBA			1000	985		ug/Kg		98	63 - 130	0	20
DIPE			50.0	57.0		ug/Kg		114	70 - 131	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*109*		*58 - 140*

Lab Sample ID: LCSD 720-132972/9
Matrix: Solid
Analysis Batch: 132972

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1010		ug/Kg		101	61 - 128	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*111*		*58 - 140*

Lab Sample ID: MB 720-133087/4
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			03/26/13 15:14	1
Ethylbenzene	ND		5.0		ug/Kg			03/26/13 15:14	1
MTBE	ND		5.0		ug/Kg			03/26/13 15:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			03/26/13 15:14	1
Toluene	ND		5.0		ug/Kg			03/26/13 15:14	1
Xylenes, Total	ND		10		ug/Kg			03/26/13 15:14	1
TAME	ND		5.0		ug/Kg			03/26/13 15:14	1
Ethyl t-butyl ether	ND		5.0		ug/Kg			03/26/13 15:14	1
TBA	ND		10		ug/Kg			03/26/13 15:14	1
DIPE	ND		5.0		ug/Kg			03/26/13 15:14	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-133087/4
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		45 - 131		03/26/13 15:14	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140		03/26/13 15:14	1
Toluene-d8 (Surr)	107		58 - 140		03/26/13 15:14	1

Lab Sample ID: LCS 720-133087/5
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.0		ug/Kg		96	70 - 130
Ethylbenzene	50.0	48.5		ug/Kg		97	80 - 137
MTBE	50.0	60.3		ug/Kg		121	70 - 144
m-Xylene & p-Xylene	100	105		ug/Kg		105	70 - 146
o-Xylene	50.0	53.0		ug/Kg		106	70 - 140
Toluene	50.0	46.9		ug/Kg		94	80 - 128
TAME	50.0	50.2		ug/Kg		100	70 - 140
Ethyl t-butyl ether	50.0	50.5		ug/Kg		101	70 - 130
TBA	1000	873		ug/Kg		87	63 - 130
DIPE	50.0	50.6		ug/Kg		101	70 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	109		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	113		58 - 140

Lab Sample ID: LCS 720-133087/7
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	971		ug/Kg		97	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	110		45 - 131
1,2-Dichloroethane-d4 (Surr)	109		60 - 140
Toluene-d8 (Surr)	113		58 - 140

Lab Sample ID: LCSD 720-133087/6
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	47.3		ug/Kg		95	70 - 130	1	20
Ethylbenzene	50.0	48.1		ug/Kg		96	80 - 137	1	20
MTBE	50.0	61.2		ug/Kg		122	70 - 144	2	20
m-Xylene & p-Xylene	100	104		ug/Kg		104	70 - 146	1	20
o-Xylene	50.0	52.9		ug/Kg		106	70 - 140	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-133087/6
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			50.0	45.8		ug/Kg		92	80 - 128	2	20
TAME			50.0	50.9		ug/Kg		102	70 - 140	1	20
Ethyl t-butyl ether			50.0	50.8		ug/Kg		102	70 - 130	1	20
TBA			1000	858		ug/Kg		86	63 - 130	2	20
DIPE			50.0	50.8		ug/Kg		102	70 - 131	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*112*		*58 - 140*

Lab Sample ID: LCSD 720-133087/8
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	988		ug/Kg		99	61 - 128	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*115*		*58 - 140*

Lab Sample ID: MB 720-133108/12-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		500		ug/Kg		03/26/13 15:41	03/26/13 22:29	100
Gasoline Range Organics (GRO) -C5-C12	ND		25000		ug/Kg		03/26/13 15:41	03/26/13 22:29	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*66 - 148*	*03/26/13 15:41*	*03/26/13 22:29*	*100*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*	*03/26/13 15:41*	*03/26/13 22:29*	*100*
Toluene-d8 (Surr)	*106*		*65 - 141*	*03/26/13 15:41*	*03/26/13 22:29*	*100*

Lab Sample ID: LCS 720-133108/13-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133108

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			5000	4560		ug/Kg		91	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*66 - 148*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-133108/13-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133108

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*107*		*62 - 137*
Toluene-d8 (Surr)	*111*		*65 - 141*

Lab Sample ID: LCS 720-133108/15-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133108

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			100000	88700		ug/Kg		89	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*106*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*104*		*62 - 137*
Toluene-d8 (Surr)	*113*		*65 - 141*

Lab Sample ID: LCSD 720-133108/14-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 133108

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			5000	4700		ug/Kg		94	76 - 122	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*107*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*
Toluene-d8 (Surr)	*112*		*65 - 141*

Lab Sample ID: LCSD 720-133108/16-A
Matrix: Solid
Analysis Batch: 133087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 133108

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			100000	91700		ug/Kg		92	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*106*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*106*		*62 - 137*
Toluene-d8 (Surr)	*113*		*65 - 141*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-132996/1-A
Matrix: Solid
Analysis Batch: 133046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132996

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		03/25/13 11:18	03/26/13 11:22	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 11:18	03/26/13 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*40 - 130*	*03/25/13 11:18*	*03/26/13 11:22*	*1*

Lab Sample ID: LCS 720-132996/2-A
Matrix: Solid
Analysis Batch: 133046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132996

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.2	74.9		mg/Kg		91	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*96*		*40 - 130*

Lab Sample ID: LCSD 720-132996/3-A
Matrix: Solid
Analysis Batch: 133046

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 132996

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.6	71.4		mg/Kg		86	50 - 150	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*91*		*40 - 130*

Lab Sample ID: 720-48500-2 MS
Matrix: Solid
Analysis Batch: 133046

Client Sample ID: SV-4-5.5
Prep Type: Total/NA
Prep Batch: 132996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	3.4		82.1	83.3		mg/Kg		97	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*78*		*40 - 130*

Lab Sample ID: 720-48500-2 MSD
Matrix: Solid
Analysis Batch: 133046

Client Sample ID: SV-4-5.5
Prep Type: Total/NA
Prep Batch: 132996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	3.4		82.8	84.9		mg/Kg		98	50 - 150	2	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-48500-2 MSD
Matrix: Solid
Analysis Batch: 133046

Client Sample ID: SV-4-5.5
Prep Type: Total/NA
Prep Batch: 132996

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	80		40 - 130

Lab Sample ID: MB 720-133030/1-A
Matrix: Solid
Analysis Batch: 133052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		03/25/13 17:34	03/26/13 11:19	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/25/13 17:34	03/26/13 11:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	98		40 - 130	03/25/13 17:34	03/26/13 11:19	1

Lab Sample ID: LCS 720-133030/2-A
Matrix: Solid
Analysis Batch: 133052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133030

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.0	75.6		mg/Kg		92	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	114		40 - 130

Lab Sample ID: LCSD 720-133030/3-A
Matrix: Solid
Analysis Batch: 133052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 133030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.9	74.7		mg/Kg		90	50 - 150	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	110		40 - 130

Lab Sample ID: MB 720-133201/1-A
Matrix: Solid
Analysis Batch: 133236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		03/27/13 14:40	03/28/13 11:05	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		03/27/13 14:40	03/28/13 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	91		40 - 130	03/27/13 14:40	03/28/13 11:05	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-133201/2-A
Matrix: Solid
Analysis Batch: 133236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133201

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.7	74.7		mg/Kg		90	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*95*		*40 - 130*

Lab Sample ID: LCSD 720-133201/3-A
Matrix: Solid
Analysis Batch: 133236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 133201

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.4	71.4		mg/Kg		87	50 - 150	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*94*		*40 - 130*

Lab Sample ID: 720-48500-21 MS
Matrix: Solid
Analysis Batch: 133237

Client Sample ID: SV-7-9
Prep Type: Total/NA
Prep Batch: 133201

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	2.2		83.2	71.1		mg/Kg		83	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*67*		*40 - 130*

Lab Sample ID: 720-48500-21 MSD
Matrix: Solid
Analysis Batch: 133237

Client Sample ID: SV-7-9
Prep Type: Total/NA
Prep Batch: 133201

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.2		82.2	77.2		mg/Kg		91	50 - 150	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*75*		*40 - 130*

GC/MS VOA

Analysis Batch: 132954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-1	SV-4-2.5	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-2	SV-4-5.5	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-3	SV-4-8	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-4	SV-1-2.5	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-5	SV-1-5	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-6	SV-2-2.5	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-7	SV-2-5	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-8	SV-1-9	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-10	SV-3-3	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-11	SV-3-5	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-13	SV-5-3	Total/NA	Solid	8260B/CA_LUFT MS	132967
720-48500-14	SV-5-5	Total/NA	Solid	8260B/CA_LUFT MS	132967
LCS 720-132954/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-132954/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-132954/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-132954/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-132954/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 132967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-1	SV-4-2.5	Total/NA	Solid	5035	
720-48500-2	SV-4-5.5	Total/NA	Solid	5035	
720-48500-3	SV-4-8	Total/NA	Solid	5035	
720-48500-4	SV-1-2.5	Total/NA	Solid	5035	
720-48500-5	SV-1-5	Total/NA	Solid	5035	
720-48500-6	SV-2-2.5	Total/NA	Solid	5035	
720-48500-7	SV-2-5	Total/NA	Solid	5035	
720-48500-8	SV-1-9	Total/NA	Solid	5035	
720-48500-10	SV-3-3	Total/NA	Solid	5035	
720-48500-11	SV-3-5	Total/NA	Solid	5035	
720-48500-13	SV-5-3	Total/NA	Solid	5035	
720-48500-14	SV-5-5	Total/NA	Solid	5035	

Analysis Batch: 132972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-16	SV-6-3	Total/NA	Solid	8260B/CA_LUFT MS	132992

GC/MS VOA (Continued)

Analysis Batch: 132972 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-17	SV-6-5.5	Total/NA	Solid	8260B/CA_LUFT MS	132992
720-48500-20	SV-7-5.5	Total/NA	Solid	8260B/CA_LUFT MS	132992
720-48500-21	SV-7-9	Total/NA	Solid	8260B/CA_LUFT MS	132992
720-48500-22	SV-8-3	Total/NA	Solid	8260B/CA_LUFT MS	132992
720-48500-23	SV-8-5.5	Total/NA	Solid	8260B/CA_LUFT MS	132992
720-48500-24	SV-8-9	Total/NA	Solid	8260B/CA_LUFT MS	132992
LCS 720-132972/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-132972/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-132972/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-132972/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-132972/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 132992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-16	SV-6-3	Total/NA	Solid	5035	
720-48500-17	SV-6-5.5	Total/NA	Solid	5035	
720-48500-20	SV-7-5.5	Total/NA	Solid	5035	
720-48500-21	SV-7-9	Total/NA	Solid	5035	
720-48500-22	SV-8-3	Total/NA	Solid	5035	
720-48500-23	SV-8-5.5	Total/NA	Solid	5035	
720-48500-24	SV-8-9	Total/NA	Solid	5035	

Analysis Batch: 133087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-2	SV-4-5.5	Total/NA	Solid	8260B/CA_LUFT MS	133108
720-48500-3	SV-4-8	Total/NA	Solid	8260B/CA_LUFT MS	133108
720-48500-10	SV-3-3	Total/NA	Solid	8260B/CA_LUFT MS	133107
720-48500-13	SV-5-3	Total/NA	Solid	8260B/CA_LUFT MS	133107
720-48500-19	SV-7-3	Total/NA	Solid	8260B/CA_LUFT MS	133107
720-48500-20	SV-7-5.5	Total/NA	Solid	8260B/CA_LUFT MS	133107
720-48500-21	SV-7-9	Total/NA	Solid	8260B/CA_LUFT MS	133107
720-48500-22	SV-8-3	Total/NA	Solid	8260B/CA_LUFT MS	133107
720-48500-23	SV-8-5.5	Total/NA	Solid	8260B/CA_LUFT MS	133107
720-48500-24	SV-8-9	Total/NA	Solid	8260B/CA_LUFT MS	133107

GC/MS VOA (Continued)

Analysis Batch: 133087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-133087/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-133087/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-133108/13-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	133108
LCS 720-133108/15-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	133108
LCSD 720-133087/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-133087/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-133108/14-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	133108
LCSD 720-133108/16-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	133108
MB 720-133087/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-133108/12-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	133108

Prep Batch: 133107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-10	SV-3-3	Total/NA	Solid	5035	
720-48500-13	SV-5-3	Total/NA	Solid	5035	
720-48500-19	SV-7-3	Total/NA	Solid	5035	
720-48500-20	SV-7-5.5	Total/NA	Solid	5035	
720-48500-21	SV-7-9	Total/NA	Solid	5035	
720-48500-22	SV-8-3	Total/NA	Solid	5035	
720-48500-23	SV-8-5.5	Total/NA	Solid	5035	
720-48500-24	SV-8-9	Total/NA	Solid	5035	

Prep Batch: 133108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-2	SV-4-5.5	Total/NA	Solid	5035	
720-48500-3	SV-4-8	Total/NA	Solid	5035	
720-48500-8	SV-1-9	Total/NA	Solid	5035	
720-48500-9	SV-2-10	Total/NA	Solid	5035	
720-48500-12	SV-3-10	Total/NA	Solid	5035	
720-48500-14	SV-5-5	Total/NA	Solid	5035	
720-48500-15	SV-5-9	Total/NA	Solid	5035	
720-48500-16	SV-6-3	Total/NA	Solid	5035	
720-48500-17	SV-6-5.5	Total/NA	Solid	5035	
720-48500-18	SV-6-9	Total/NA	Solid	5035	
LCS 720-133108/13-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 720-133108/15-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 720-133108/14-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 720-133108/16-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 720-133108/12-A	Method Blank	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Analysis Batch: 133143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-9	SV-2-10	Total/NA	Solid	8260B/CA_LUFT MS	133108
720-48500-12	SV-3-10	Total/NA	Solid	8260B/CA_LUFT MS	133108
720-48500-18	SV-6-9	Total/NA	Solid	8260B/CA_LUFT MS	133108

Analysis Batch: 133213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-8	SV-1-9	Total/NA	Solid	8260B/CA_LUFT MS	133108
720-48500-14	SV-5-5	Total/NA	Solid	8260B/CA_LUFT MS	133108
720-48500-15	SV-5-9	Total/NA	Solid	8260B/CA_LUFT MS	133108
720-48500-16	SV-6-3	Total/NA	Solid	8260B/CA_LUFT MS	133108
720-48500-17	SV-6-5.5	Total/NA	Solid	8260B/CA_LUFT MS	133108

GC Semi VOA

Prep Batch: 132996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-1	SV-4-2.5	Total/NA	Solid	3546	
720-48500-2	SV-4-5.5	Total/NA	Solid	3546	
720-48500-2 MS	SV-4-5.5	Total/NA	Solid	3546	
720-48500-2 MSD	SV-4-5.5	Total/NA	Solid	3546	
720-48500-3	SV-4-8	Total/NA	Solid	3546	
720-48500-4	SV-1-2.5	Total/NA	Solid	3546	
720-48500-5	SV-1-5	Total/NA	Solid	3546	
720-48500-6	SV-2-2.5	Total/NA	Solid	3546	
720-48500-7	SV-2-5	Total/NA	Solid	3546	
720-48500-8	SV-1-9	Total/NA	Solid	3546	
720-48500-9	SV-2-10	Total/NA	Solid	3546	
720-48500-10	SV-3-3	Total/NA	Solid	3546	
720-48500-11	SV-3-5	Total/NA	Solid	3546	
720-48500-12	SV-3-10	Total/NA	Solid	3546	
720-48500-13	SV-5-3	Total/NA	Solid	3546	
720-48500-14	SV-5-5	Total/NA	Solid	3546	
720-48500-15	SV-5-9	Total/NA	Solid	3546	
720-48500-16	SV-6-3	Total/NA	Solid	3546	
720-48500-17	SV-6-5.5	Total/NA	Solid	3546	
720-48500-18	SV-6-9	Total/NA	Solid	3546	
720-48500-19	SV-7-3	Total/NA	Solid	3546	
720-48500-20	SV-7-5.5	Total/NA	Solid	3546	
LCS 720-132996/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-132996/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-132996/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 133030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-22	SV-8-3	Total/NA	Solid	3546	
720-48500-23	SV-8-5.5	Total/NA	Solid	3546	
720-48500-24	SV-8-9	Total/NA	Solid	3546	
LCS 720-133030/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-133030/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-133030/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 133046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-1	SV-4-2.5	Total/NA	Solid	8015B	132996
720-48500-2	SV-4-5.5	Total/NA	Solid	8015B	132996
720-48500-2 MS	SV-4-5.5	Total/NA	Solid	8015B	132996
720-48500-2 MSD	SV-4-5.5	Total/NA	Solid	8015B	132996
720-48500-3	SV-4-8	Total/NA	Solid	8015B	132996
720-48500-4	SV-1-2.5	Total/NA	Solid	8015B	132996
720-48500-5	SV-1-5	Total/NA	Solid	8015B	132996
720-48500-7	SV-2-5	Total/NA	Solid	8015B	132996
720-48500-11	SV-3-5	Total/NA	Solid	8015B	132996
720-48500-12	SV-3-10	Total/NA	Solid	8015B	132996
LCS 720-132996/2-A	Lab Control Sample	Total/NA	Solid	8015B	132996
LCSD 720-132996/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	132996
MB 720-132996/1-A	Method Blank	Total/NA	Solid	8015B	132996

Analysis Batch: 133047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-15	SV-5-9	Total/NA	Solid	8015B	132996
720-48500-16	SV-6-3	Total/NA	Solid	8015B	132996
720-48500-18	SV-6-9	Total/NA	Solid	8015B	132996
720-48500-19	SV-7-3	Total/NA	Solid	8015B	132996
720-48500-20	SV-7-5.5	Total/NA	Solid	8015B	132996

Analysis Batch: 133051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-22	SV-8-3	Total/NA	Solid	8015B	133030
720-48500-23	SV-8-5.5	Total/NA	Solid	8015B	133030
720-48500-24	SV-8-9	Total/NA	Solid	8015B	133030

Analysis Batch: 133052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-133030/2-A	Lab Control Sample	Total/NA	Solid	8015B	133030
LCSD 720-133030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	133030
MB 720-133030/1-A	Method Blank	Total/NA	Solid	8015B	133030

Prep Batch: 133201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-21	SV-7-9	Total/NA	Solid	3546	
720-48500-21 MS	SV-7-9	Total/NA	Solid	3546	
720-48500-21 MSD	SV-7-9	Total/NA	Solid	3546	
LCS 720-133201/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-133201/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-133201/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Analysis Batch: 133236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-21	SV-7-9	Total/NA	Solid	8015B	133201
LCS 720-133201/2-A	Lab Control Sample	Total/NA	Solid	8015B	133201
LCSD 720-133201/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	133201
MB 720-133201/1-A	Method Blank	Total/NA	Solid	8015B	133201

Analysis Batch: 133237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-21 MS	SV-7-9	Total/NA	Solid	8015B	133201
720-48500-21 MSD	SV-7-9	Total/NA	Solid	8015B	133201

Analysis Batch: 133238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48500-6	SV-2-2.5	Total/NA	Solid	8015B	132996
720-48500-8	SV-1-9	Total/NA	Solid	8015B	132996
720-48500-9	SV-2-10	Total/NA	Solid	8015B	132996
720-48500-10	SV-3-3	Total/NA	Solid	8015B	132996
720-48500-13	SV-5-3	Total/NA	Solid	8015B	132996
720-48500-14	SV-5-5	Total/NA	Solid	8015B	132996
720-48500-17	SV-6-5.5	Total/NA	Solid	8015B	132996

Client Sample ID: SV-4-2.5

Lab Sample ID: 720-48500-1

Date Collected: 03/22/13 07:55

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 14:16	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133046	03/26/13 10:09	DH	TAL SF

Client Sample ID: SV-4-5.5

Lab Sample ID: 720-48500-2

Date Collected: 03/22/13 08:05

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 14:44	AC	TAL SF
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		100	133087	03/27/13 01:23	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133046	03/26/13 12:43	DH	TAL SF

Client Sample ID: SV-4-8

Lab Sample ID: 720-48500-3

Date Collected: 03/22/13 08:30

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 15:11	AC	TAL SF
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		100	133087	03/27/13 01:51	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133046	03/26/13 13:08	DH	TAL SF

Client Sample ID: SV-1-2.5

Lab Sample ID: 720-48500-4

Date Collected: 03/22/13 09:30

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 15:39	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133046	03/26/13 13:32	DH	TAL SF

Client Sample ID: SV-1-5 — **Lab Sample ID: 720-48500-5**
Date Collected: 03/22/13 09:40 — **Matrix: Solid**
Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 16:07	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		20	133046	03/26/13 15:16	DH	TAL SF

Client Sample ID: SV-2-2.5 — **Lab Sample ID: 720-48500-6**
Date Collected: 03/22/13 10:00 — **Matrix: Solid**
Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 16:35	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133238	03/28/13 12:14	DH	TAL SF

Client Sample ID: SV-2-5 — **Lab Sample ID: 720-48500-7**
Date Collected: 03/22/13 10:05 — **Matrix: Solid**
Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 17:03	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133046	03/26/13 16:04	DH	TAL SF

Client Sample ID: SV-1-9 — **Lab Sample ID: 720-48500-8**
Date Collected: 03/22/13 10:30 — **Matrix: Solid**
Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 17:31	AC	TAL SF
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		100	133213	03/27/13 21:29	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		20	133238	03/28/13 14:00	DH	TAL SF

Client Sample ID: SV-2-10 — **Lab Sample ID: 720-48500-9**
Date Collected: 03/22/13 10:50 — **Matrix: Solid**
Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF

Client Sample ID: SV-2-10

Lab Sample ID: 720-48500-9

Date Collected: 03/22/13 10:50

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	133143	03/27/13 11:27	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133238	03/28/13 10:37	DH	TAL SF

Client Sample ID: SV-3-3

Lab Sample ID: 720-48500-10

Date Collected: 03/22/13 11:45

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 18:27	AC	TAL SF
Total/NA	Prep	5035			133107	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 22:00	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		3	133238	03/28/13 13:13	DH	TAL SF

Client Sample ID: SV-3-5

Lab Sample ID: 720-48500-11

Date Collected: 03/22/13 11:55

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 18:55	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133046	03/26/13 17:42	DH	TAL SF

Client Sample ID: SV-3-10

Lab Sample ID: 720-48500-12

Date Collected: 03/22/13 12:05

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		100	133143	03/27/13 11:56	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133046	03/26/13 18:06	DH	TAL SF

Client Sample ID: SV-5-3

Lab Sample ID: 720-48500-13

Date Collected: 03/22/13 12:50

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 19:51	AC	TAL SF

Client Sample ID: SV-5-3

Lab Sample ID: 720-48500-13

Date Collected: 03/22/13 12:50

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133107	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 21:31	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		3	133238	03/28/13 12:44	DH	TAL SF

Client Sample ID: SV-5-5

Lab Sample ID: 720-48500-14

Date Collected: 03/22/13 13:10

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132967	03/22/13 18:15	JRM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132954	03/23/13 20:19	AC	TAL SF
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		100	133213	03/27/13 21:58	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133238	03/28/13 11:07	DH	TAL SF

Client Sample ID: SV-5-9

Lab Sample ID: 720-48500-15

Date Collected: 03/22/13 13:20

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		100	133213	03/27/13 23:25	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133047	03/26/13 15:40	DH	TAL SF

Client Sample ID: SV-6-3

Lab Sample ID: 720-48500-16

Date Collected: 03/22/13 14:35

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132992	03/22/13 18:15	PD	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132972	03/25/13 13:25	AC	TAL SF
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		100	133213	03/27/13 22:27	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133047	03/26/13 16:04	DH	TAL SF

Client Sample ID: SV-6-5.5

Lab Sample ID: 720-48500-17

Date Collected: 03/22/13 14:50

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132992	03/22/13 18:15	PD	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132972	03/25/13 13:54	AC	TAL SF
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		100	133213	03/27/13 22:56	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133238	03/28/13 11:45	DH	TAL SF

Client Sample ID: SV-6-9

Lab Sample ID: 720-48500-18

Date Collected: 03/22/13 15:10

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133108	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1000	133143	03/27/13 12:53	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133047	03/26/13 16:53	DH	TAL SF

Client Sample ID: SV-7-3

Lab Sample ID: 720-48500-19

Date Collected: 03/22/13 14:45

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			133107	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 21:02	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133047	03/26/13 17:17	DH	TAL SF

Client Sample ID: SV-7-5.5

Lab Sample ID: 720-48500-20

Date Collected: 03/22/13 15:00

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132992	03/22/13 18:15	PD	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132972	03/25/13 15:21	AC	TAL SF
Total/NA	Prep	5035			133107	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 20:32	AC	TAL SF
Total/NA	Prep	3546			132996	03/25/13 11:18	DT	TAL SF
Total/NA	Analysis	8015B		1	133047	03/26/13 18:06	DH	TAL SF

Client Sample ID: SV-7-9

Lab Sample ID: 720-48500-21

Date Collected: 03/22/13 15:25

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132992	03/22/13 18:15	PD	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132972	03/25/13 15:50	AC	TAL SF
Total/NA	Prep	5035			133107	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 20:03	AC	TAL SF
Total/NA	Prep	3546			133201	03/27/13 14:40	DFR	TAL SF
Total/NA	Analysis	8015B		1	133236	03/28/13 09:45	DH	TAL SF

Client Sample ID: SV-8-3

Lab Sample ID: 720-48500-22

Date Collected: 03/22/13 15:30

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132992	03/22/13 18:15	PD	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132972	03/25/13 16:18	AC	TAL SF
Total/NA	Prep	5035			133107	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 19:34	AC	TAL SF
Total/NA	Prep	3546			133030	03/25/13 17:34	DFR	TAL SF
Total/NA	Analysis	8015B		1	133051	03/26/13 12:47	JZ	TAL SF

Client Sample ID: SV-8-5.5

Lab Sample ID: 720-48500-23

Date Collected: 03/22/13 15:35

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132992	03/22/13 18:15	PD	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132972	03/25/13 16:47	AC	TAL SF
Total/NA	Prep	5035			133107	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 19:06	AC	TAL SF
Total/NA	Prep	3546			133030	03/25/13 17:34	DFR	TAL SF
Total/NA	Analysis	8015B		1	133051	03/26/13 13:16	JZ	TAL SF

Client Sample ID: SV-8-9

Lab Sample ID: 720-48500-24

Date Collected: 03/22/13 15:40

Matrix: Solid

Date Received: 03/22/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			132992	03/22/13 18:15	PD	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	132972	03/25/13 17:16	AC	TAL SF
Total/NA	Prep	5035			133107	03/22/13 18:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	133087	03/26/13 18:37	AC	TAL SF
Total/NA	Prep	3546			133030	03/25/13 17:34	DFR	TAL SF
Total/NA	Analysis	8015B		1	133051	03/26/13 13:45	JZ	TAL SF

Lab Chronicle

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: The Source Group
Project/Site: Paco Pumps

TestAmerica Job ID: 720-48500-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-48500-1	SV-4-2.5	Solid	03/22/13 07:55	03/22/13 16:45
720-48500-2	SV-4-5.5	Solid	03/22/13 08:05	03/22/13 16:45
720-48500-3	SV-4-8	Solid	03/22/13 08:30	03/22/13 16:45
720-48500-4	SV-1-2.5	Solid	03/22/13 09:30	03/22/13 16:45
720-48500-5	SV-1-5	Solid	03/22/13 09:40	03/22/13 16:45
720-48500-6	SV-2-2.5	Solid	03/22/13 10:00	03/22/13 16:45
720-48500-7	SV-2-5	Solid	03/22/13 10:05	03/22/13 16:45
720-48500-8	SV-1-9	Solid	03/22/13 10:30	03/22/13 16:45
720-48500-9	SV-2-10	Solid	03/22/13 10:50	03/22/13 16:45
720-48500-10	SV-3-3	Solid	03/22/13 11:45	03/22/13 16:45
720-48500-11	SV-3-5	Solid	03/22/13 11:55	03/22/13 16:45
720-48500-12	SV-3-10	Solid	03/22/13 12:05	03/22/13 16:45
720-48500-13	SV-5-3	Solid	03/22/13 12:50	03/22/13 16:45
720-48500-14	SV-5-5	Solid	03/22/13 13:10	03/22/13 16:45
720-48500-15	SV-5-9	Solid	03/22/13 13:20	03/22/13 16:45
720-48500-16	SV-6-3	Solid	03/22/13 14:35	03/22/13 16:45
720-48500-17	SV-6-5.5	Solid	03/22/13 14:50	03/22/13 16:45
720-48500-18	SV-6-9	Solid	03/22/13 15:10	03/22/13 16:45
720-48500-19	SV-7-3	Solid	03/22/13 14:45	03/22/13 16:45
720-48500-20	SV-7-5.5	Solid	03/22/13 15:00	03/22/13 16:45
720-48500-21	SV-7-9	Solid	03/22/13 15:25	03/22/13 16:45
720-48500-22	SV-8-3	Solid	03/22/13 15:30	03/22/13 16:45
720-48500-23	SV-8-5.5	Solid	03/22/13 15:35	03/22/13 16:45
720-48500-24	SV-8-9	Solid	03/22/13 15:40	03/22/13 16:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-48500

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 144767

Date 3/22/13 Page 1 of 3

3/29/2013

Report To

Attn: Paul Parmentier
Company: The Source Group
Address: 3478 Buskirk Ave Suite 100
Email: pparmentier@thesourcegroup.net
Bill To
Sampled By: Paisha Jorgensen
Attn
Phone: 925-944-2856

Analysis Request

Sample ID	Date	Time	Mat.	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☑ BTEX ☑ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
SV-4-2.5	3/22/13	0755	S				X	X																		4
SV-4-5.5		0805					X	X																		
SV-4-8		0830					X	X																		
SV-1-2.5		0930					X	X																		
SV-1-5		0940					X	X																		
SV-2-2.5		1000					X	X																		
SV-2-5		1005					X	X																		
SV-1-9		1030					X	X																		
SV-2-10		1050					X	X																		
SV-3-3		1145					X	X																		

720-48500 Chain of Custody

Project Info

Project Name/ #: Pace Pumps
PO#: 04-PFT-004
Credit Card Y/N

Sample Receipt

# of Containers:
Head Space:
Temp: 1.6°C

If yes, please call with payment information ASAP

TAT: (10 Day) 5 Day 4 Day 3 Day 2 Day 1 Day Other:

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ EDF
Special Instructions / Comments ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by: Signature 1545 Time
Paisha Jorgensen 3/22/13 Printed Name Date
SCI Company

2) Relinquished by: Signature 1645 Time
Savio Motta 03/22/13 Printed Name Date
TASI Company

3) Relinquished by: Signature Time
Printed Name Date
Company

1) Received by: Signature 1545 Time
Savio Motta 03/22/13 Printed Name Date
TASI Company

2) Received by: Signature 1645 Time
T. Bullock 3/22/13 Printed Name Date
TA Company

3) Received by: Signature Time
Printed Name Date
Company

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-48500

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 144767

Date 3/22/13 Page 2 of 3

3/29/2013

Report To

Attn: Paul Parmentier
Company: The Source Group, Inc
Address: 3478 Buskirk Ave, Ste 100, Pleasant Hill, CA
Email: pparmentier@thesourcegroup.net
Bill To:
Sampled By: Paisha Jorgensen
Attn:
Phone: 925-944-2856

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B, ☒ Gas ☒ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
SV-3-5	3/22/13	1155	S				X	X																		2
SV-3-10	3/22/13	1205	S				X	X																		2
SV-5-3		1250					X	X																		2
SV-5-5		1310					X	X																		2
SV-5-9		1320					X	X																		2
SV-6-3		1435					X	X																		2
SV-6-5.5		1450					X	X																		2
SV-6-9		1510					X	X																		2
SV-7-3		1445					X	X																		2
SV-7-5.5		1500					X	X																		2

Project Info

Project Name/ #: Palo Pumps
PO#: 04-PPT-004
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 1.6°

TAT: (10 Day) 5 Day 4 Day 3 Day 2 Day 1 Day Other:

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ EDF
Special instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: 1545 Time	Signature: 1645 Time	Signature: Time
Printed Name: Paisha Jorgensen 3/22/13 Date	Printed Name: David Mutha 03/22/13 Date	Printed Name: Date
Company: SCI	Company: TSP	Company:

1) Received by:	2) Received by:	3) Received by
Signature: 1545 Time	Signature: 1645 Time	Signature: Time
Printed Name: David Mutha 03/22/13 Date	Printed Name: T Bullock 3/22/13 Date	Printed Name: Date
Company: TSP	Company: TA	Company:

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-48500

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 14476 7

Date 3/22/13 Page 3 of 3

3/29/2013

Report To

Attn. Paul Parmentier
Company. The Source Group
Address: 3478 Buskirk Ave Ste 100, Pleasant Hill CA
Email: pparmentier@thesourcegroup.net
Bill To
Sampled By: P. Jorgensen
Attn:
Phone: 925-944-2856

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☒ BTEX ☐ Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	Semi-Volatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
SV-7-9	3/22/13	1525	S				X	X																		1
SV-8-3	↓	1530	↓				X	X																		1
SV-8-5.5		1535					X	X																		1
SV-8-9		1540					X	X																		1

Page 61 of 62

Project Info

Project Name/ #.: Paco Pump
PO#: 04-PFT-004
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 11.6°
If yes, please call with payment information ASAP

TAT: (10 Day) | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by:
Signature: [signature] Time: 1545
Printed Name: Paiton Jorgensen Date: 3/22/13
Company: SCI

2) Relinquished by:
Signature: [signature] Time: 1645
Printed Name: David Motha Date: 03/22/13
Company: TASE

3) Relinquished by.
Signature Time
Printed Name Date
Company

1) Received by:
Signature: [signature] Time: 1545
Printed Name: David Motha Date: 03/22/13
Company: TASE

2) Received by:
Signature: [signature] Time: 1645
Printed Name: T Bullock Date: 3/22/13
Company: TA

3) Received by
Signature Time
Printed Name Date
Company

Rev 10/2012

Login Sample Receipt Checklist

Client: The Source Group

Job Number: 720-48500-1

Login Number: 48500

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX G

LABORATORY ANALYTICAL DATA – SOIL VAPOR

TEG Northern California Inc.

9 April 2013

Mr. Paisha Jorgensen
The Source Group, Inc.
3478 Buskirk Avenue, Suite 100
Pleasant Hill, CA 94523

SUBJECT: DATA REPORT - The Source Group, Inc. Project # 04-PFT-004
Former PACO Pumps Site
9201 San Leandro Street, Oakland, California

TEG Project # 30326F

Mr. Jorgensen:

Please find enclosed a data report for the samples analyzed from the above referenced project for The Source Group. The samples were analyzed on site in TEG's mobile laboratory. TEG conducted a total of 27 analyses on 9 soil vapor samples.

-- 9 analyses on soil vapors for aromatic volatile hydrocarbons (BTEX and naphthalene), fuel oxygenate MtBE, and total petroleum hydrocarbons-gasoline by EPA method 8260B.

-- 9 analyses on soil vapors for methane by GC/TCD.

-- 9 analyses on soil vapors for oxygen, carbon dioxide, and nitrogen by GC/TCD.

The results of the analyses are summarized in the enclosed tables. Applicable detection limits and calibration data are included in the tables.

TEG appreciates the opportunity to have provided analytical services to The Source Group on this project. If you have any further questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Mark Jerpbak
Director, TEG-Northern California

The Source Group, Inc. Project # 04-PFT-004
Former PACO Pumps Site
9201 San Leandro Street, Oakland, California

TEG Project #30326F

Analyses of SOIL VAPOR
BTEX, Naphthalene, MtBE & TPH-gasoline (EPA method 8260B) in micrograms per cubic meter of Vapor
Methane in ppmV; Oxygen, Nitrogen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		Blank	SV-1	SV-2	SV-2 dup	SV-3
SAMPLE DEPTH (feet):			5.5	5.5	5.5	6.0
PURGE VOLUME:			3	3	3	3
COLLECTION DATE:		03/26/12	03/26/12	03/26/12	03/26/12	03/26/12
COLLECTION TIME:		08:43	12:47	13:39	13:39	11:26
DILUTION FACTOR (VOCs):		1	1	1	1	10
	RL					
Benzene	80	nd	490	200	240	9500
Toluene	200	nd	nd	nd	nd	nd
Ethylbenzene	100	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd
Naphthalene	70	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MtBE)	100	nd	nd	nd	nd	nd
TPH (gasoline range)	10000	nd	340000	1500000	1500000	2100000
Methane	1000	nd	nd	nd	nd	nd
Oxygen	1.0	20	2.8	12	11	10
Carbon Dioxide	1.0	nd	11	3.5	3.6	nd
Nitrogen	10	79	78	79	79	70
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		85%	71%	78%	71%	69%
Surrogate Recovery (Toluene-d8)		90%	79%	89%	77%	76%
Surrogate Recovery (1,4-BFB)		83%	84%	85%	70%	76%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Leif Jonsson

11350 Monier Park Place, Rancho Cordova, CA 95742 • Phone (916) 853-8010 • Fax (916) 853-8020

The Source Group, Inc. Project # 04-PFT-004
Former PACO Pumps Site
9201 San Leandro Street, Oakland, California

TEG Project #30326F

Analyses of SOIL VAPOR
BTEX, Naphthalene, MtBE & TPH-gasoline (EPA method 8260B) in micrograms per cubic meter of Vapor
Methane in ppmV; Oxygen, Nitrogen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		SV-4	SV-5	SV-6	SV-7	SV-8
SAMPLE DEPTH (feet):		5.5	5.5	5.5	5.5	5.5
PURGE VOLUME:		3	3	3	3	3
COLLECTION DATE:		03/26/12	03/26/12	03/26/12	03/26/12	03/26/12
COLLECTION TIME:		12:21	11:04	14:55	15:20	15:44
DILUTION FACTOR (VOCs):		1	10	1	1	1
	RL					
Benzene	80	2400	560000	23000	nd	110
Toluene	200	nd	4500	nd	nd	nd
Ethylbenzene	100	140	45000	5200	nd	nd
m,p-Xylene	200	640	13000	20000	nd	nd
o-Xylene	100	130	nd	220	nd	nd
Naphthalene	70	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MtBE)	100	nd	nd	nd	nd	nd
TPH (gasoline range)	10000	3400000	20000000	1000000	nd	57000
Methane	1000	nd	10000	nd	nd	nd
Oxygen	1.0	8.1	7.1	10	20	19
Carbon Dioxide	1.0	5.4	2.8	6.6	nd	1.3
Nitrogen	10	63	64	86	76	77
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		70%	71%	70%	67%	81%
Surrogate Recovery (Toluene-d8)		96%	78%	76%	62%	87%
Surrogate Recovery (1,4-BFB)		76%	71%	79%	64%	87%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Leif Jonsson

11350 Monier Park Place, Rancho Cordova, CA 95742 • Phone (916) 853-8010 • Fax (916) 853-8020

TEG Project #30326F

CALIBRATION DATA - Calibration Check Compounds

	Vinyl Chloride	1,1 DCE	Chloroform	1,2 DCP	Toluene	Ethylbenzene
Midpoint	50.0	50.0	50.0	50.0	50.0	50.0
Continuing Calibration - Midpoint						
3/26/13	41.1	42.1	44.5	46.9	46.6	49.1
	82.2%	84.2%	89.0%	93.8%	93.2%	98.2%

APPENDIX H

LABORATORY ANALYTICAL DATA – GROUNDWATER

Northern California ACCUTEST LABORATORIES

04/13/13

Technical Report for

The Source Group

T0600101592-9201 San Leandro Street, Oakland CA

PACO PUMPS

Accutest Job Number: C27055

Sampling Date: 04/05/13

Report to:

The Source Group
3478 Buskirk Ave Suite 100
Pleasant Hill, CA 94523
pparmentier@thesourcegroup.net; sdaro@thesourcegroup.net;
gmciver@thesourcegroup.net
ATTN: Paul Parmentier

Total number of pages in report: **128**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

Sections: 1 2 3 4 5 6

Table of Contents

-1-

Accutest Laboratories

Sample Summary

The Source Group

Job No: C27055

T0600101592-9201 San Leandro Street, Oakland CA
Project No: PACO PUMPS

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C27055-1	04/05/13	11:08	CK	04/05/13	AQ	Ground Water	MW-1
C27055-2	04/05/13	10:40	CK	04/05/13	AQ	Ground Water	MW-2
C27055-3	04/05/13	12:40	CK	04/05/13	AQ	Ground Water	MW-3
C27055-4	04/05/13	11:05	CK	04/05/13	AQ	Ground Water	MW-4
C27055-5	04/05/13	11:30	CK	04/05/13	AQ	Ground Water	MW-5
C27055-6	04/05/13	13:10	CK	04/05/13	AQ	Ground Water	MW-6
C27055-7	04/05/13	10:33	CK	04/05/13	AQ	Ground Water	MW-7
C27055-8	04/05/13	12:55	CK	04/05/13	AQ	Ground Water	MW-9
C27055-9	04/05/13	12:25	CK	04/05/13	AQ	Ground Water	MW-10
C27055-10	04/05/13	11:55	CK	04/05/13	AQ	Ground Water	MW-11
C27055-11	04/05/13	10:05	CK	04/05/13	AQ	Ground Water	E-2
C27055-12	04/05/13	13:25	CK	04/05/13	AQ	Ground Water	E-3
C27055-13	04/05/13	13:50	CK	04/05/13	AQ	Ground Water	E-6

Sample Summary
(continued)

The Source Group

Job No: C27055

T0600101592-9201 San Leandro Street, Oakland CA
Project No: PACO PUMPS

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C27055-14	04/05/13	11:55	CK	04/05/13	AQ	Ground Water	E-7
C27055-15	04/05/13	12:15	CK	04/05/13	AQ	Ground Water	E-8
C27055-16	04/05/13	10:15	CK	04/05/13	AQ	Ground Water	E-12
C27055-17	04/05/13	11:35	CK	04/05/13	AQ	Ground Water	AS-1D
C27055-18	04/05/13	12:45	CK	04/05/13	AQ	Ground Water	MW-3DUP
C27055-19	04/05/13	09:00	CK	04/05/13	AQ	Trip Blank Water	TB-1

Summary of Hits

Job Number: C27055
Account: The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA
Collected: 04/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C27055-1	**MW-1**					
TPH (Motor Oil)		0.323	0.19	0.097	mg/l	SW846 8015B M
C27055-2	**MW-2**					
Methyl Tert Butyl Ether		0.35 J	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		42.0 J	50	25	ug/l	SW846 8260B
TPH (Motor Oil)		0.434	0.19	0.095	mg/l	SW846 8015B M
C27055-3	**MW-3**					
Benzene		1030	20	4.0	ug/l	SW846 8260B
n-Butylbenzene		51.8	40	4.0	ug/l	SW846 8260B
sec-Butylbenzene		11.5 J	40	4.0	ug/l	SW846 8260B
Ethylbenzene		152	20	4.0	ug/l	SW846 8260B
Isopropylbenzene		39.8	20	4.0	ug/l	SW846 8260B
p-Isopropyltoluene		6.1 J	40	4.0	ug/l	SW846 8260B
Naphthalene		90.4 J	100	10	ug/l	SW846 8260B
n-Propylbenzene		97.7	40	4.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		760	40	4.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		186	40	4.0	ug/l	SW846 8260B
Toluene		547	20	4.0	ug/l	SW846 8260B
Xylene (total)		374	40	9.2	ug/l	SW846 8260B
TPH-GRO (C6-C10)		14200	1000	500	ug/l	SW846 8260B
TPH (Diesel) [a]		1.96	0.48	0.24	mg/l	SW846 8015B M
C27055-4	**MW-4**					
Benzene		11.0	1.0	0.20	ug/l	SW846 8260B
n-Butylbenzene		0.27 J	2.0	0.20	ug/l	SW846 8260B
Ethylbenzene		1.3	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		0.59 J	1.0	0.20	ug/l	SW846 8260B
n-Propylbenzene		1.5 J	2.0	0.20	ug/l	SW846 8260B
Toluene		0.57 J	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		0.98 J	2.0	0.46	ug/l	SW846 8260B
TPH-GRO (C6-C10)		97.9	50	25	ug/l	SW846 8260B
C27055-5	**MW-5**					
TPH (Motor Oil)		1.22	0.19	0.096	mg/l	SW846 8015B M
C27055-6	**MW-6**					
Benzene		750	10	2.0	ug/l	SW846 8260B

Summary of Hits

Job Number: C27055
Account: The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA
Collected: 04/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
n-Butylbenzene		32.8	20	2.0	ug/l	SW846 8260B
sec-Butylbenzene		7.4 J	20	2.0	ug/l	SW846 8260B
1,2-Dichloroethane		6.4 J	10	2.0	ug/l	SW846 8260B
Ethylbenzene		57.3	10	2.0	ug/l	SW846 8260B
Isopropylbenzene		17.8	10	2.0	ug/l	SW846 8260B
p-Isopropyltoluene		5.0 J	20	2.0	ug/l	SW846 8260B
Naphthalene		41.5 J	50	5.0	ug/l	SW846 8260B
n-Propylbenzene		48.5	20	2.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		447	20	2.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		112	20	2.0	ug/l	SW846 8260B
Toluene		67.1	10	2.0	ug/l	SW846 8260B
Xylene (total)		127	20	4.6	ug/l	SW846 8260B
TPH-GRO (C6-C10)		5090	500	250	ug/l	SW846 8260B
TPH (Diesel) [a]		0.305	0.094	0.047	mg/l	SW846 8015B M
C27055-7	**MW-7**					
Methyl Tert Butyl Ether		0.58 J	1.0	0.20	ug/l	SW846 8260B
C27055-8	**MW-9**					
1,2-Dichloroethane [b]		0.67 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether [b]		1.1	1.0	0.20	ug/l	SW846 8260B
C27055-9	**MW-10**					
1,2-Dichloroethane		0.26 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.20 J	1.0	0.20	ug/l	SW846 8260B
TPH (Motor Oil)		0.690	0.21	0.11	mg/l	SW846 8015B M
C27055-10	**MW-11**					
TPH (Motor Oil)		0.718	0.19	0.094	mg/l	SW846 8015B M
C27055-11	**E-2**					
TPH (Motor Oil)		5.10	0.94	0.47	mg/l	SW846 8015B M
C27055-12	**E-3**					
Acetone		5.5 J	20	4.0	ug/l	SW846 8260B
Benzene		1.0	1.0	0.20	ug/l	SW846 8260B
1,2-Dichloroethane		0.71 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.43 J	1.0	0.20	ug/l	SW846 8260B
n-Propylbenzene		0.27 J	2.0	0.20	ug/l	SW846 8260B

Summary of Hits

Job Number: C27055
Account: The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA
Collected: 04/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TPH-GRO (C6-C10)		161	50	25	ug/l	SW846 8260B
TPH (Motor Oil)		357	49	24	mg/l	SW846 8015B M
C27055-13	**E-6**					
Acetone		8.2 J	20	4.0	ug/l	SW846 8260B
Benzene		2.2	1.0	0.20	ug/l	SW846 8260B
n-Butylbenzene		1.1 J	2.0	0.20	ug/l	SW846 8260B
sec-Butylbenzene		0.62 J	2.0	0.20	ug/l	SW846 8260B
tert-Butylbenzene		2.1	2.0	0.28	ug/l	SW846 8260B
Ethylbenzene		4.3	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		2.0	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.69 J	1.0	0.20	ug/l	SW846 8260B
n-Propylbenzene		4.8	2.0	0.20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.43 J	2.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		529	50	25	ug/l	SW846 8260B
TPH (Motor Oil)		3.21	0.96	0.48	mg/l	SW846 8015B M
C27055-14	**E-7**					
Acetone		15.2 J	40	8.0	ug/l	SW846 8260B
Benzene		125	2.0	0.40	ug/l	SW846 8260B
n-Butylbenzene		1.0 J	4.0	0.40	ug/l	SW846 8260B
sec-Butylbenzene		0.49 J	4.0	0.40	ug/l	SW846 8260B
1,2-Dichloroethane		1.9 J	2.0	0.40	ug/l	SW846 8260B
Ethylbenzene		17.4	2.0	0.40	ug/l	SW846 8260B
Isopropylbenzene		2.5	2.0	0.40	ug/l	SW846 8260B
Methyl Tert Butyl Ether		3.3	2.0	0.40	ug/l	SW846 8260B
Naphthalene		6.3 J	10	1.0	ug/l	SW846 8260B
n-Propylbenzene		6.1	4.0	0.40	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		13.0	4.0	0.40	ug/l	SW846 8260B
Toluene		20.9	2.0	0.40	ug/l	SW846 8260B
Xylene (total)		28.7	4.0	0.92	ug/l	SW846 8260B
TPH-GRO (C6-C10)		1060	100	50	ug/l	SW846 8260B
TPH (Diesel) [a]		0.0751 J	0.095	0.048	mg/l	SW846 8015B M
C27055-15	**E-8**					
Acetone		32.2 J	100	20	ug/l	SW846 8260B
Benzene		707	10	2.0	ug/l	SW846 8260B
n-Butylbenzene		2.7 J	10	1.0	ug/l	SW846 8260B
sec-Butylbenzene		1.3 J	10	1.0	ug/l	SW846 8260B
tert-Butylbenzene		9.1 J	10	1.4	ug/l	SW846 8260B
1,2-Dichloroethane		3.6 J	5.0	1.0	ug/l	SW846 8260B
Ethylbenzene		118	5.0	1.0	ug/l	SW846 8260B

Summary of Hits

Job Number: C27055
Account: The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA
Collected: 04/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Isopropylbenzene		9.4	5.0	1.0	ug/l	SW846 8260B
Naphthalene		18.2 J	25	2.5	ug/l	SW846 8260B
n-Propylbenzene		22.2	10	1.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		58.9	10	1.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		7.8 J	10	1.0	ug/l	SW846 8260B
Toluene		61.1	5.0	1.0	ug/l	SW846 8260B
Xylene (total)		119	10	2.3	ug/l	SW846 8260B
TPH-GRO (C6-C10)		4750	250	130	ug/l	SW846 8260B
TPH (Diesel) [c]		1.42	0.094	0.047	mg/l	SW846 8015B M
TPH (Motor Oil)		1.01	0.19	0.094	mg/l	SW846 8015B M
C27055-16	**E-12**					
Acetone		9.9 J	20	4.0	ug/l	SW846 8260B
Benzene		64.1	1.0	0.20	ug/l	SW846 8260B
n-Butylbenzene		0.84 J	2.0	0.20	ug/l	SW846 8260B
sec-Butylbenzene		0.52 J	2.0	0.20	ug/l	SW846 8260B
tert-Butylbenzene		0.63 J	2.0	0.28	ug/l	SW846 8260B
Ethylbenzene		8.1	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		2.3	1.0	0.20	ug/l	SW846 8260B
Naphthalene		2.8 J	5.0	0.50	ug/l	SW846 8260B
n-Propylbenzene		5.7	2.0	0.20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		2.2	2.0	0.20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		0.34 J	2.0	0.20	ug/l	SW846 8260B
Toluene		3.3	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		3.0	2.0	0.46	ug/l	SW846 8260B
TPH-GRO (C6-C10)		496	50	25	ug/l	SW846 8260B
TPH (Diesel) [a]		0.0624 J	0.096	0.048	mg/l	SW846 8015B M
C27055-17	**AS-1D**					
No hits reported in this sample.						
C27055-18	**MW-3DUP**					
Benzene		835	10	2.0	ug/l	SW846 8260B
sec-Butylbenzene		16.7 J	20	2.0	ug/l	SW846 8260B
1,2-Dichloroethane		2.9 J	10	2.0	ug/l	SW846 8260B
Ethylbenzene		142	10	2.0	ug/l	SW846 8260B
Isopropylbenzene		43.3	10	2.0	ug/l	SW846 8260B
p-Isopropyltoluene		9.7 J	20	2.0	ug/l	SW846 8260B
Naphthalene		121	50	5.0	ug/l	SW846 8260B
n-Propylbenzene		119	20	2.0	ug/l	SW846 8260B
Styrene		6.5 J	10	2.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		881	20	2.0	ug/l	SW846 8260B

Summary of Hits

Job Number: C27055
Account: The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA
Collected: 04/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,3,5-Trimethylbenzene		223	20	2.0	ug/l	SW846 8260B
Toluene		454	10	2.0	ug/l	SW846 8260B
Xylene (total)		363	20	4.6	ug/l	SW846 8260B
TPH-GRO (C6-C10)		9970	500	250	ug/l	SW846 8260B
TPH (Diesel) [a]		2.21	0.94	0.47	mg/l	SW846 8015B M
C27055-19	**TB-1**					
Acetone		6.0 J	20	4.0	ug/l	SW846 8260B

(a) Diesel pattern is not present; higher boiling gasoline compounds in Diesel range.
(b) Sample vial contained more than 0.5cm of sediment.
(c) Atypical Diesel pattern (C12-C28); heavier hydrocarbons contributing to quantitation.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	C27055-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V12203.D	1	04/10/13	TN	n/a	n/a	VV497
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	C27055-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	C27055-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	C27055-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42184.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.097	0.049	mg/l	
	TPH (Motor Oil)	0.323	0.19	0.097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	67%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2
Lab Sample ID: C27055-2
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V12204.D	1	04/10/13	TN	n/a	n/a	VV497
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2
Lab Sample ID: C27055-2
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.35	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	42.0	50	25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	C27055-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	C27055-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42185.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.048	mg/l	
	TPH (Motor Oil)	0.434	0.19	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	57%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	C27055-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V12208.D	20	04/10/13	TN	n/a	n/a	VV497
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	400	80	ug/l	
71-43-2	Benzene	1030	20	4.0	ug/l	
108-86-1	Bromobenzene	ND	20	4.0	ug/l	
74-97-5	Bromochloromethane	ND	20	4.0	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.0	ug/l	
75-25-2	Bromoform	ND	20	4.4	ug/l	
104-51-8	n-Butylbenzene	51.8	40	4.0	ug/l	
135-98-8	sec-Butylbenzene	11.5	40	4.0	ug/l	J
98-06-6	tert-Butylbenzene	ND	40	5.6	ug/l	
108-90-7	Chlorobenzene	ND	20	4.0	ug/l	
75-00-3	Chloroethane	ND	20	4.0	ug/l	
67-66-3	Chloroform	ND	20	4.0	ug/l	
95-49-8	o-Chlorotoluene	ND	40	4.0	ug/l	
106-43-4	p-Chlorotoluene	ND	40	5.2	ug/l	
56-23-5	Carbon tetrachloride	ND	20	4.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	4.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	4.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	4.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	8.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	4.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	4.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	4.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	4.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	40	4.4	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	4.0	ug/l	
124-48-1	Dibromochloromethane	ND	20	4.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	4.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	4.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	4.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	20	4.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	4.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	4.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	C27055-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	20	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	152	20	4.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	40	4.4	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	4.0	ug/l	
98-82-8	Isopropylbenzene	39.8	20	4.0	ug/l	
99-87-6	p-Isopropyltoluene	6.1	40	4.0	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND	200	20	ug/l	
74-83-9	Methyl bromide	ND	40	4.0	ug/l	
74-87-3	Methyl chloride	ND	20	6.0	ug/l	
74-95-3	Methylene bromide	ND	20	4.0	ug/l	
75-09-2	Methylene chloride	ND	200	40	ug/l	
78-93-3	Methyl ethyl ketone	ND	200	40	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	4.0	ug/l	
91-20-3	Naphthalene	90.4	100	10	ug/l	J
103-65-1	n-Propylbenzene	97.7	40	4.0	ug/l	
100-42-5	Styrene	ND	20	4.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	40	8.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	200	48	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	6.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	4.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	4.4	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	40	4.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	4.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	40	4.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	760	40	4.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	186	40	4.0	ug/l	
127-18-4	Tetrachloroethylene	ND	20	6.0	ug/l	
108-88-3	Toluene	547	20	4.0	ug/l	
79-01-6	Trichloroethylene	ND	20	4.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.0	ug/l	
75-01-4	Vinyl chloride	ND	20	4.0	ug/l	
1330-20-7	Xylene (total)	374	40	9.2	ug/l	
	TPH-GRO (C6-C10)	14200	1000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	C27055-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	C27055-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42211.D	5	04/09/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) [a]	1.96	0.48	0.24	mg/l	
	TPH (Motor Oil)	ND	0.95	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	65%		32-124%

(a) Diesel pattern is not present; higher boiling gasoline compounds in Diesel range.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	C27055-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V12205.D	1	04/10/13	TN	n/a	n/a	VV497
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	11.0	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	0.27	2.0	0.20	ug/l	J
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	C27055-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	1.3	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	0.59	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	1.5	2.0	0.20	ug/l	J
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	0.57	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	0.98	2.0	0.46	ug/l	J
	TPH-GRO (C6-C10)	97.9	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	C27055-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	C27055-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42186.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.048	mg/l	
	TPH (Motor Oil)	ND	0.19	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	51%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	C27055-5	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V12206.D	1	04/10/13	TN	n/a	n/a	VV497
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	C27055-5	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	C27055-5	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	C27055-5	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42188.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.096	0.048	mg/l	
	TPH (Motor Oil)	1.22	0.19	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	65%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	C27055-6	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V12209.D	10	04/10/13	TN	n/a	n/a	VV497
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	200	40	ug/l	
71-43-2	Benzene	750	10	2.0	ug/l	
108-86-1	Bromobenzene	ND	10	2.0	ug/l	
74-97-5	Bromochloromethane	ND	10	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	2.0	ug/l	
75-25-2	Bromoform	ND	10	2.2	ug/l	
104-51-8	n-Butylbenzene	32.8	20	2.0	ug/l	
135-98-8	sec-Butylbenzene	7.4	20	2.0	ug/l	J
98-06-6	tert-Butylbenzene	ND	20	2.8	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
75-00-3	Chloroethane	ND	10	2.0	ug/l	
67-66-3	Chloroform	ND	10	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	20	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	20	2.6	ug/l	
56-23-5	Carbon tetrachloride	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	4.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	2.0	ug/l	
107-06-2	1,2-Dichloroethane	6.4	10	2.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	10	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	2.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	20	2.2	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	10	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	10	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	10	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	C27055-6	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	10	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	57.3	10	2.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	20	2.2	ug/l	
591-78-6	2-Hexanone	ND	100	20	ug/l	
87-68-3	Hexachlorobutadiene	ND	20	2.0	ug/l	
98-82-8	Isopropylbenzene	17.8	10	2.0	ug/l	
99-87-6	p-Isopropyltoluene	5.0	20	2.0	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND	100	10	ug/l	
74-83-9	Methyl bromide	ND	20	2.0	ug/l	
74-87-3	Methyl chloride	ND	10	3.0	ug/l	
74-95-3	Methylene bromide	ND	10	2.0	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	2.0	ug/l	
91-20-3	Naphthalene	41.5	50	5.0	ug/l	J
103-65-1	n-Propylbenzene	48.5	20	2.0	ug/l	
100-42-5	Styrene	ND	10	2.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	20	4.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	100	24	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	3.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	2.2	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	20	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	447	20	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	112	20	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	10	3.0	ug/l	
108-88-3	Toluene	67.1	10	2.0	ug/l	
79-01-6	Trichloroethylene	ND	10	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	127	20	4.6	ug/l	
	TPH-GRO (C6-C10)	5090	500	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	C27055-6	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	C27055-6	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42189.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) [a]	0.305	0.094	0.047	mg/l	
	TPH (Motor Oil)	ND	0.19	0.094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	62%		32-124%

(a) Diesel pattern is not present; higher boiling gasoline compounds in Diesel range.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	C27055-7	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V12207.D	1	04/10/13	TN	n/a	n/a	VV497
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	C27055-7	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.58	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	C27055-7	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	C27055-7	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42190.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.10	0.051	mg/l	
	TPH (Motor Oil)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	68%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	C27055-8	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R16102.D	1	04/10/13	BD	n/a	n/a	VR582
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.67	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	C27055-8	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.1	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	C27055-8	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

(a) Sample vial contained more than 0.5cm of sediment.
(b) CCV outside of control limits (biased high); not detected in sample.

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	C27055-8	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42191.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.11	0.054	mg/l	
	TPH (Motor Oil)	ND	0.22	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	72%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	C27055-9	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R16103.D	1	04/10/13	BD	n/a	n/a	VR582
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.26	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	C27055-9	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.20	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	C27055-9	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	C27055-9	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42192.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.11	0.053	mg/l	
	TPH (Motor Oil)	0.690	0.21	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	66%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	C27055-10	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R16104.D	1	04/10/13	BD	n/a	n/a	VR582
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-11
Lab Sample ID: C27055-10
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	C27055-10	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	C27055-10	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42193.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.094	0.047	mg/l	
	TPH (Motor Oil)	0.718	0.19	0.094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	49%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-2
Lab Sample ID: C27055-11
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q14145.D	1	04/10/13	PH	n/a	n/a	VQ560
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-2
Lab Sample ID: C27055-11
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-2		
Lab Sample ID:	C27055-11	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-2		
Lab Sample ID:	C27055-11	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42215.D	5	04/09/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.47	0.24	mg/l	
	TPH (Motor Oil)	5.10	0.94	0.47	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	35%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-3
Lab Sample ID: C27055-12
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q14146.D	1	04/10/13	PH	n/a	n/a	VQ560
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.5	20	4.0	ug/l	J
71-43-2	Benzene	1.0	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.71	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-3		
Lab Sample ID:	C27055-12	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.43	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	0.27	2.0	0.20	ug/l	J
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	161	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-3		
Lab Sample ID:	C27055-12	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	108%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-3		
Lab Sample ID:	C27055-12	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42239.D	250	04/09/13	MT	04/08/13	OP7779	GGG1126
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	24	12	mg/l	
	TPH (Motor Oil)	357	49	24	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	187% [a]		32-124%

(a) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-6
Lab Sample ID: C27055-13
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q14147.D	1	04/10/13	PH	n/a	n/a	VQ560
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	8.2	20	4.0	ug/l	J
71-43-2	Benzene	2.2	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	1.1	2.0	0.20	ug/l	J
135-98-8	sec-Butylbenzene	0.62	2.0	0.20	ug/l	J
98-06-6	tert-Butylbenzene	2.1	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-6
Lab Sample ID: C27055-13
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	4.3	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	2.0	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.69	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	4.8	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.43	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	529	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-6		
Lab Sample ID:	C27055-13	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-6		
Lab Sample ID:	C27055-13	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42240.D	5	04/09/13	MT	04/08/13	OP7779	GGG1126
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.48	0.24	mg/l	
	TPH (Motor Oil)	3.21	0.96	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	46%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-7
Lab Sample ID: C27055-14
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q14148.D	2	04/10/13	PH	n/a	n/a	VQ560
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	15.2	40	8.0	ug/l	J
71-43-2	Benzene	125	2.0	0.40	ug/l	
108-86-1	Bromobenzene	ND	2.0	0.40	ug/l	
74-97-5	Bromochloromethane	ND	2.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.40	ug/l	
75-25-2	Bromoform	ND	2.0	0.44	ug/l	
104-51-8	n-Butylbenzene	1.0	4.0	0.40	ug/l	J
135-98-8	sec-Butylbenzene	0.49	4.0	0.40	ug/l	J
98-06-6	tert-Butylbenzene	ND	4.0	0.56	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.40	ug/l	
75-00-3	Chloroethane	ND	2.0	0.40	ug/l	
67-66-3	Chloroform	ND	2.0	0.40	ug/l	
95-49-8	o-Chlorotoluene	ND	4.0	0.40	ug/l	
106-43-4	p-Chlorotoluene	ND	4.0	0.52	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.40	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.40	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	0.40	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	0.80	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.40	ug/l	
107-06-2	1,2-Dichloroethane	1.9	2.0	0.40	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.40	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	0.40	ug/l	
108-20-3	Di-Isopropyl ether	ND	4.0	0.44	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	0.40	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.40	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	0.40	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	0.40	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	0.40	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-7
Lab Sample ID: C27055-14
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.60	ug/l	
100-41-4	Ethylbenzene	17.4	2.0	0.40	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	4.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	20	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.0	0.40	ug/l	
98-82-8	Isopropylbenzene	2.5	2.0	0.40	ug/l	
99-87-6	p-Isopropyltoluene	ND	4.0	0.40	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/l	
74-83-9	Methyl bromide	ND	4.0	0.40	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.60	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.40	ug/l	
75-09-2	Methylene chloride	ND	20	4.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	20	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.3	2.0	0.40	ug/l	
91-20-3	Naphthalene	6.3	10	1.0	ug/l	J
103-65-1	n-Propylbenzene	6.1	4.0	0.40	ug/l	
100-42-5	Styrene	ND	2.0	0.40	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	4.0	0.80	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	4.8	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.60	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.40	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	4.0	0.40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	4.0	0.40	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	0.40	ug/l	
95-63-6	1,2,4-Trimethylbenzene	13.0	4.0	0.40	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	4.0	0.40	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.60	ug/l	
108-88-3	Toluene	20.9	2.0	0.40	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.40	ug/l	
1330-20-7	Xylene (total)	28.7	4.0	0.92	ug/l	
	TPH-GRO (C6-C10)	1060	100	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-7		
Lab Sample ID:	C27055-14	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-7		
Lab Sample ID:	C27055-14	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42195.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) [a]	0.0751	0.095	0.048	mg/l	J
	TPH (Motor Oil)	ND	0.19	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	65%		32-124%

(a) Diesel pattern is not present; higher boiling gasoline compounds in Diesel range.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-8
Lab Sample ID: C27055-15
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q14149.D	5	04/10/13	PH	n/a	n/a	VQ560
Run #2	Q14172.D	10	04/10/13	PH	n/a	n/a	VQ561

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	32.2	100	20	ug/l	J
71-43-2	Benzene	707 [a]	10	2.0	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/l	
75-25-2	Bromoform	ND	5.0	1.1	ug/l	
104-51-8	n-Butylbenzene	2.7	10	1.0	ug/l	J
135-98-8	sec-Butylbenzene	1.3	10	1.0	ug/l	J
98-06-6	tert-Butylbenzene	9.1	10	1.4	ug/l	J
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	5.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	10	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	10	1.3	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	3.6	5.0	1.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	10	1.1	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-8
Lab Sample ID: C27055-15
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	118	5.0	1.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	10	1.1	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	1.0	ug/l	
98-82-8	Isopropylbenzene	9.4	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	50	5.0	ug/l	
74-83-9	Methyl bromide	ND	10	1.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	50	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	18.2	25	2.5	ug/l	J
103-65-1	n-Propylbenzene	22.2	10	1.0	ug/l	
100-42-5	Styrene	ND	5.0	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	10	2.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	50	12	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	58.9	10	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	7.8	10	1.0	ug/l	J
127-18-4	Tetrachloroethylene	ND	5.0	1.5	ug/l	
108-88-3	Toluene	61.1	5.0	1.0	ug/l	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/l	
1330-20-7	Xylene (total)	119	10	2.3	ug/l	
	TPH-GRO (C6-C10)	4750	250	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	103%	70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-8		
Lab Sample ID:	C27055-15	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	107%	106%	70-130%
460-00-4	4-Bromofluorobenzene	103%	101%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-8		
Lab Sample ID:	C27055-15	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42248.D	1	04/09/13	MT	04/08/13	OP7779	GGG1126
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) [a]	1.42	0.094	0.047	mg/l	
	TPH (Motor Oil)	1.01	0.19	0.094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	58%		32-124%

(a) Atypical Diesel pattern (C12-C28); heavier hydrocarbons contributing to quantitation.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-12
Lab Sample ID: C27055-16
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q14150.D	1	04/10/13	PH	n/a	n/a	VQ560
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	9.9	20	4.0	ug/l	J
71-43-2	Benzene	64.1	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	0.84	2.0	0.20	ug/l	J
135-98-8	sec-Butylbenzene	0.52	2.0	0.20	ug/l	J
98-06-6	tert-Butylbenzene	0.63	2.0	0.28	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E-12
Lab Sample ID: C27055-16
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	8.1	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	2.3	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	2.8	5.0	0.50	ug/l	J
103-65-1	n-Propylbenzene	5.7	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.2	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.34	2.0	0.20	ug/l	J
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	3.3	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	3.0	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	496	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-12		
Lab Sample ID:	C27055-16	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-12		
Lab Sample ID:	C27055-16	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42196.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) [a]	0.0624	0.096	0.048	mg/l	J
	TPH (Motor Oil)	ND	0.19	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	73%		32-124%

(a) Diesel pattern is not present; higher boiling gasoline compounds in Diesel range.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	C27055-17	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R16105.D	1	04/10/13	BD	n/a	n/a	VR582
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	C27055-17	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	C27055-17	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	C27055-17	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42197.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.094	0.047	mg/l	
	TPH (Motor Oil)	ND	0.19	0.094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	64%		32-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3DUP
Lab Sample ID: C27055-18
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R16106.D	10	04/10/13	BD	n/a	n/a	VR582
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	200	40	ug/l	
71-43-2	Benzene	835	10	2.0	ug/l	
108-86-1	Bromobenzene	ND	10	2.0	ug/l	
74-97-5	Bromochloromethane	ND	10	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	2.0	ug/l	
75-25-2	Bromoform	ND	10	2.2	ug/l	
104-51-8	n-Butylbenzene	ND	20	2.0	ug/l	
135-98-8	sec-Butylbenzene	16.7	20	2.0	ug/l	J
98-06-6	tert-Butylbenzene	ND	20	2.8	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
75-00-3	Chloroethane	ND	10	2.0	ug/l	
67-66-3	Chloroform	ND	10	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	20	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	20	2.6	ug/l	
56-23-5	Carbon tetrachloride	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	4.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	2.0	ug/l	
107-06-2	1,2-Dichloroethane	2.9	10	2.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	10	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	2.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	20	2.2	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.0	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	10	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	10	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	10	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	10	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3DUP
Lab Sample ID: C27055-18
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	10	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	142	10	2.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	20	2.2	ug/l	
591-78-6	2-Hexanone	ND	100	20	ug/l	
87-68-3	Hexachlorobutadiene	ND	20	2.0	ug/l	
98-82-8	Isopropylbenzene	43.3	10	2.0	ug/l	
99-87-6	p-Isopropyltoluene	9.7	20	2.0	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND	100	10	ug/l	
74-83-9	Methyl bromide	ND	20	2.0	ug/l	
74-87-3	Methyl chloride	ND	10	3.0	ug/l	
74-95-3	Methylene bromide	ND	10	2.0	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	2.0	ug/l	
91-20-3	Naphthalene	121	50	5.0	ug/l	
103-65-1	n-Propylbenzene	119	20	2.0	ug/l	
100-42-5	Styrene	6.5	10	2.0	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	20	4.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	100	24	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	3.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	2.2	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	20	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	881	20	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	223	20	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	10	3.0	ug/l	
108-88-3	Toluene	454	10	2.0	ug/l	
79-01-6	Trichloroethylene	ND	10	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	363	20	4.6	ug/l	
	TPH-GRO (C6-C10)	9970	500	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3DUP		
Lab Sample ID:	C27055-18	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3DUP		
Lab Sample ID:	C27055-18	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42214.D	10	04/09/13	MT	04/08/13	OP7779	GGG1125
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) [a]	2.21	0.94	0.47	mg/l	
	TPH (Motor Oil)	ND	1.9	0.94	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	58%		32-124%

(a) Diesel pattern is not present; higher boiling gasoline compounds in Diesel range.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TB-1
Lab Sample ID: C27055-19
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: T0600101592-9201 San Leandro Street, Oakland CA

Date Sampled: 04/05/13
Date Received: 04/05/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R16101.D	1	04/10/13	BD	n/a	n/a	VR582
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	6.0	20	4.0	ug/l	J
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-1		
Lab Sample ID:	C27055-19	**Date Sampled:**	04/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	100%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-1		
Lab Sample ID:	C27055-19	**Date Sampled:**	04/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592-9201 San Leandro Street, Oakland CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGRPCAPH2805

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB ACCUTEST C27055 DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION
☐ LIA
☐ OTHER

CHAIN OF CUSTODY BTS # 130405-CK1

CLIENT The Source Group

SITE Paco Pumps
9201 San Leandro St.
Oakland, CA

SPECIAL INSTRUCTIONS

Invoice and Report to : The Source Group

Attn: Paul Parmentier pparmentier@thesourcegroup.net
(562)597-1055 ext106
PO #: 04-PFT-001
Geotracker EDD files required

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH-g (8260B)	VOC's (8260B)	TPH-d / TPH-mo (8015M)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	4/5/13	1108	W	5	MIX		X	X	X				1
MW-2		1040	W	5	MIX		X	X	X	SAMPLE LABELED "E-2"			2
MW-3		1240	W	5	MIX		X	X	X				3
MW-4		1105	W	5	MIX		X	X	X				4
MW-5		1130	W	5	MIX		X	X	X				5
MW-6		1310	W	5	MIX		X	X	X				6
MW-7		1033	W	5	MIX		X	X	X				7
MW-9		1259	W	5	MIX		X	X	X				8
MW-10		1225	W	5	MIX		X	X	X				9
MW-11		1155	W	5	MIX		X	X	X				10

	DATE	TIME		
SAMPLING COMPLETED	4/5/13	1400	SAMPLING PERFORMED BY	Caleb Kilpatrick / Ker S/M

RESULTS NEEDED NO LATER THAN Standard TAT

		DATE	TIME			DATE	TIME
RELEASED BY		4/5/13	1600	RECEIVED BY		4/4/13	1600
RELEASED BY		DATE	TIME	RECEIVED BY		DATE	TIME
RELEASED BY		DATE	TIME	RECEIVED BY		DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

TEMP= 3.2°C / 3.5°C / 4.1°C

1 OF 2

C27055: Chain of Custody
Page 1 of 4

BLAINE TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130405-CK1

CLIENT: The Source Group
SITE: Paco Pumps
9201 San Leandro St.
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB: ACCUTEST C27055 | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to : The Source Group
Attn: Paul Parmentier pparmentier@thesourcegroup.net
(562)597-1055 ext106
PO #: 04-PFT-001
Geotracker EDD files required

SAMPLE I.D.	DATE	TIME	MATRIX (S= SOIL W=H_2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH-g (8260B)	VOC's (8260B)	TPH-d / TPH-mo (8015M)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
E-2	4/5/13	1005	W	5	MIX		X	X	X				11
E-3		1325	W	5	MIX		X	X	X				12
E-6		1350	W	5	MIX		X	X	X				13
E-7		1155	W	5	MIX		X	X	X				14
E-8		1215	W	5	MIX		X	X	X				15
E-12		1015	W	5	MIX		X	X	X				16
AS-10		1135	W	5	MIX		X	X	X				17
MW-3DUP		1245	W	5	MIX		X	X	X				18
TB-1		0900	W	3	HCL VOAS			X					19

SAMPLING COMPLETED: DATE 4/5/13 TIME 1400
SAMPLING PERFORMED BY: Corey Kilpatrick/Ken Sim
RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	4/5/13	1600	[signature]	4/4/13	1600

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

2 of 2

C27055: Chain of Custody
Page 2 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C27055 **Client:** The Source Group **Project:** Paco Pumps - Oakland, CA

Date / Time Received: 4/5/2013 **Delivery Method:** Client **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3.2/3.2); #2: (3.5/3.5); #3: (4.1/4.1); 0

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☐	☑	3. COC Present:	☑	☐
2. Custody Seals Intact:	☐	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No, Coolers	3	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☐	☑

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments Sample I.D.# MW-2.....Labeled as "E-2", Sample colllection time on COC and Sample label match "10:40"

Accutest Laboratories
V:408.588.0200

2105 Lundy Avenue
F: 408.588.0201

San Jose, CA 95131
www/accutest.com

C27055: Chain of Custody
Page 3 of 4

Sample Receipt Summary - Problem Resolution

Accutest Job Number: C27055

CSR: Nutan Kabir **Response Date:** 4/10/2013

Response: Here is Client's response-

Nutan,

Talked to Blaine Tech and sample MW-2 was accidentally labeled E-2 on the bottles. Checked the field forms and MW-2 was collected at 1040 and E-2 was collected at 1005.

Thanks,

Harlow Newton

Accutest Laboratories
V:408.588.0200
2105 Lundy Avenue
F: 408.588.0201
San Jose, CA 95131
www/accutest.com

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ560-MB	Q14138.D	1	04/09/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ560-MB	Q14138.D	1	04/09/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ560-MB	Q14138.D	1	04/09/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV497-MB	V12194.D	1	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV497-MB	V12194.D	1	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV497-MB	V12194.D	1	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	70-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ561-MB	Q14159.D	1	04/10/13	PH	n/a	n/a	VQ561

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-15

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR582-MB	R16098.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR582-MB	R16098.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR582-MB	R16098.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	97%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ560-BS	Q14135.D	1	04/09/13	PH	n/a	n/a	VQ560
VQ560-BSD	Q14136.D	1	04/09/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	78.9	99	86.9	109	10	38-159/24
71-43-2	Benzene	20	19.2	96	19.4	97	1	77-122/25
108-86-1	Bromobenzene	20	19.2	96	19.6	98	2	76-126/17
74-97-5	Bromochloromethane	20	19.8	99	20.3	102	2	77-130/17
75-27-4	Bromodichloromethane	20	19.9	100	20.3	102	2	75-127/16
75-25-2	Bromoform	20	18.8	94	19.4	97	3	69-141/17
104-51-8	n-Butylbenzene	20	19.5	98	19.8	99	2	72-129/18
135-98-8	sec-Butylbenzene	20	18.1	91	18.5	93	2	74-128/18
98-06-6	tert-Butylbenzene	20	18.9	95	18.5	93	2	73-127/18
108-90-7	Chlorobenzene	20	18.3	92	18.6	93	2	77-122/16
75-00-3	Chloroethane	20	16.5	83	16.9	85	2	69-133/18
67-66-3	Chloroform	20	19.5	98	20.0	100	3	74-126/17
95-49-8	o-Chlorotoluene	20	18.3	92	18.8	94	3	72-127/20
106-43-4	p-Chlorotoluene	20	18.5	93	18.7	94	1	68-127/18
56-23-5	Carbon tetrachloride	20	20.0	100	20.4	102	2	71-133/19
75-34-3	1,1-Dichloroethane	20	19.3	97	19.8	99	3	71-125/17
75-35-4	1,1-Dichloroethylene	20	17.9	90	18.3	92	2	66-125/20
563-58-6	1,1-Dichloropropene	20	20.2	101	20.7	104	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	18.2	91	19.0	95	4	65-131/20
106-93-4	1,2-Dibromoethane	20	20.5	103	20.9	105	2	75-135/17
107-06-2	1,2-Dichloroethane	20	19.5	98	19.9	100	2	71-131/17
78-87-5	1,2-Dichloropropane	20	19.6	98	20.0	100	2	78-124/16
142-28-9	1,3-Dichloropropane	20	20.3	102	20.7	104	2	78-123/16
108-20-3	Di-Isopropyl ether	20	19.2	96	19.8	99	3	68-129/17
594-20-7	2,2-Dichloropropane	20	18.6	93	18.8	94	1	70-131/19
124-48-1	Dibromochloromethane	20	18.0	90	18.4	92	2	76-132/16
75-71-8	Dichlorodifluoromethane	20	16.1	81	15.4	77	4	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	19.3	97	19.9	100	3	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	20.2	101	20.7	104	2	72-130/16
541-73-1	m-Dichlorobenzene	20	17.6	88	18.0	90	2	75-124/16
95-50-1	o-Dichlorobenzene	20	17.8	89	18.3	92	3	76-124/16
106-46-7	p-Dichlorobenzene	20	18.8	94	19.3	97	3	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	19.6	98	19.9	100	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	20.5	103	21.0	105	2	71-126/16
100-41-4	Ethylbenzene	20	20.2	101	20.4	102	1	76-126/17
637-92-3	Ethyl Tert Butyl Ether	20	20.9	105	21.7	109	4	75-134/17

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ560-BS	Q14135.D	1	04/09/13	PH	n/a	n/a	VQ560
VQ560-BSD	Q14136.D	1	04/09/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	92.1	115	94.7	118	3	67-150/22
87-68-3	Hexachlorobutadiene	20	18.6	93	19.0	95	2	69-135/20
98-82-8	Isopropylbenzene	20	18.9	95	19.0	95	1	61-125/17
99-87-6	p-Isopropyltoluene	20	18.3	92	18.7	94	2	68-127/18
108-10-1	4-Methyl-2-pentanone	80	82.1	103	84.4	106	3	71-142/21
74-83-9	Methyl bromide	20	16.0	80	16.4	82	2	68-132/18
74-87-3	Methyl chloride	20	17.6	88	23.6	118	29* [a]	39-150/28
74-95-3	Methylene bromide	20	19.7	99	20.1	101	2	77-127/16
75-09-2	Methylene chloride	20	18.1	91	18.5	93	2	67-128/18
78-93-3	Methyl ethyl ketone	80	86.4	108	89.9	112	4	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	19.7	99	20.5	103	4	73-132/17
91-20-3	Naphthalene	20	20.0	100	20.9	105	4	70-136/20
103-65-1	n-Propylbenzene	20	18.0	90	18.4	92	2	71-127/17
100-42-5	Styrene	20	21.1	106	21.3	107	1	72-134/16
994-05-8	Tert-Amyl Methyl Ether	20	20.1	101	20.9	105	4	73-133/17
75-65-0	Tert-Butyl Alcohol	100	103	103	110	110	7	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	20	21.2	106	21.5	108	1	77-130/16
71-55-6	1,1,1-Trichloroethane	20	20.2	101	20.7	104	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	20.9	105	21.6	108	3	77-129/17
79-00-5	1,1,2-Trichloroethane	20	20.4	102	20.9	105	2	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	18.7	94	19.1	96	2	70-133/18
96-18-4	1,2,3-Trichloropropane	20	20.9	105	21.6	108	3	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	18.5	93	19.2	96	4	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	20.2	101	20.7	104	2	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	20.4	102	20.9	105	2	77-129/17
127-18-4	Tetrachloroethylene	20	18.8	94	19.3	97	3	69-127/20
108-88-3	Toluene	20	19.9	100	20.2	101	1	75-122/17
79-01-6	Trichloroethylene	20	19.0	95	19.2	96	1	78-123/17
75-69-4	Trichlorofluoromethane	20	18.7	94	18.7	94	0	65-136/23
75-01-4	Vinyl chloride	20	14.1	71	16.5	83	16	57-146/22
1330-20-7	Xylene (total)	60	58.0	97	58.8	98	1	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	105%	106%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ560-BS	Q14135.D	1	04/09/13	PH	n/a	n/a	VQ560
VQ560-BSD	Q14136.D	1	04/09/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	106%	105%	70-130%
460-00-4	4-Bromofluorobenzene	106%	106%	70-130%

(a) Outside of in-house control limits; but within method acceptance limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV497-BS	V12191.D	1	04/09/13	TN	n/a	n/a	VV497
VV497-BSD	V12192.D	1	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	55.7	70	55.2	69	1	38-159/24
71-43-2	Benzene	20	19.7	99	19.5	98	1	77-122/25
108-86-1	Bromobenzene	20	19.0	95	19.0	95	0	76-126/17
74-97-5	Bromochloromethane	20	18.9	95	18.4	92	3	77-130/17
75-27-4	Bromodichloromethane	20	18.9	95	18.8	94	1	75-127/16
75-25-2	Bromoform	20	18.3	92	18.5	93	1	69-141/17
104-51-8	n-Butylbenzene	20	20.1	101	20.0	100	0	72-129/18
135-98-8	sec-Butylbenzene	20	18.6	93	18.9	95	2	74-128/18
98-06-6	tert-Butylbenzene	20	18.9	95	19.0	95	1	73-127/18
108-90-7	Chlorobenzene	20	18.3	92	18.5	93	1	77-122/16
75-00-3	Chloroethane	20	18.2	91	17.7	89	3	69-133/18
67-66-3	Chloroform	20	20.3	102	19.8	99	2	74-126/17
95-49-8	o-Chlorotoluene	20	19.2	96	19.4	97	1	72-127/20
106-43-4	p-Chlorotoluene	20	18.5	93	18.7	94	1	68-127/18
56-23-5	Carbon tetrachloride	20	21.2	106	21.2	106	0	71-133/19
75-34-3	1,1-Dichloroethane	20	20.5	103	19.9	100	3	71-125/17
75-35-4	1,1-Dichloroethylene	20	19.3	97	19.0	95	2	66-125/20
563-58-6	1,1-Dichloropropene	20	21.4	107	21.0	105	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	17.7	89	17.2	86	3	65-131/20
106-93-4	1,2-Dibromoethane	20	17.5	88	17.6	88	1	75-135/17
107-06-2	1,2-Dichloroethane	20	19.3	97	18.9	95	2	71-131/17
78-87-5	1,2-Dichloropropane	20	19.5	98	19.4	97	1	78-124/16
142-28-9	1,3-Dichloropropane	20	18.3	92	17.9	90	2	78-123/16
108-20-3	Di-Isopropyl ether	20	19.4	97	18.9	95	3	68-129/17
594-20-7	2,2-Dichloropropane	20	19.4	97	18.8	94	3	70-131/19
124-48-1	Dibromochloromethane	20	18.0	90	17.9	90	1	76-132/16
75-71-8	Dichlorodifluoromethane	20	19.8	99	18.4	92	7	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	19.7	99	19.4	97	2	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	19.8	99	19.7	99	1	72-130/16
541-73-1	m-Dichlorobenzene	20	17.9	90	18.0	90	1	75-124/16
95-50-1	o-Dichlorobenzene	20	17.6	88	17.7	89	1	76-124/16
106-46-7	p-Dichlorobenzene	20	19.3	97	19.5	98	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	20.8	104	20.6	103	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	17.5	88	17.3	87	1	71-126/16
100-41-4	Ethylbenzene	20	20.3	102	20.4	102	0	76-126/17
637-92-3	Ethyl Tert Butyl Ether	20	21.1	106	20.7	104	2	75-134/17

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV497-BS	V12191.D	1	04/09/13	TN	n/a	n/a	VV497
VV497-BSD	V12192.D	1	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	66.3	83	65.4	82	1	67-150/22
87-68-3	Hexachlorobutadiene	20	21.1	106	21.0	105	0	69-135/20
98-82-8	Isopropylbenzene	20	18.8	94	19.0	95	1	61-125/17
99-87-6	p-Isopropyltoluene	20	18.6	93	18.7	94	1	68-127/18
108-10-1	4-Methyl-2-pentanone	80	66.1	83	64.7	81	2	71-142/21
74-83-9	Methyl bromide	20	18.3	92	17.7	89	3	68-132/18
74-87-3	Methyl chloride	20	18.9	95	17.5	88	8	39-150/28
74-95-3	Methylene bromide	20	18.9	95	18.4	92	3	77-127/16
75-09-2	Methylene chloride	20	18.3	92	18.3	92	0	67-128/18
78-93-3	Methyl ethyl ketone	80	64.2	80	62.2	78	3	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	19.1	96	18.9	95	1	73-132/17
91-20-3	Naphthalene	20	19.0	95	19.1	96	1	70-136/20
103-65-1	n-Propylbenzene	20	18.6	93	18.5	93	1	71-127/17
100-42-5	Styrene	20	19.8	99	19.9	100	1	72-134/16
994-05-8	Tert-Amyl Methyl Ether	20	19.4	97	18.9	95	3	73-133/17
75-65-0	Tert-Butyl Alcohol	100	81.8	82	80.4	80	2	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	20	19.6	98	20.0	100	2	77-130/16
71-55-6	1,1,1-Trichloroethane	20	21.2	106	20.8	104	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	17.9	90	17.6	88	2	77-129/17
79-00-5	1,1,2-Trichloroethane	20	18.2	91	18.2	91	0	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	19.9	100	20.6	103	3	70-133/18
96-18-4	1,2,3-Trichloropropane	20	17.0	85	17.0	85	0	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	19.0	95	19.5	98	3	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	20.3	102	20.3	102	0	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	21.1	106	21.3	107	1	77-129/17
127-18-4	Tetrachloroethylene	20	19.7	99	19.6	98	1	69-127/20
108-88-3	Toluene	20	19.9	100	20.2	101	1	75-122/17
79-01-6	Trichloroethylene	20	20.2	101	19.8	99	2	78-123/17
75-69-4	Trichlorofluoromethane	20	20.1	101	19.9	100	1	65-136/23
75-01-4	Vinyl chloride	20	22.4	112	21.8	109	3	57-146/22
1330-20-7	Xylene (total)	60	57.5	96	57.9	97	1	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	101%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV497-BS	V12191.D	1	04/09/13	TN	n/a	n/a	VV497
VV497-BSD	V12192.D	1	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	101%	102%	70-130%
460-00-4	4-Bromofluorobenzene	100%	101%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ561-BS	Q14156.D	1	04/10/13	PH	n/a	n/a	VQ561
VQ561-BSD	Q14157.D	1	04/10/13	PH	n/a	n/a	VQ561

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	21.1	106	20.9	105	1	77-122/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	102%	70-130%
2037-26-5	Toluene-D8	107%	105%	70-130%
460-00-4	4-Bromofluorobenzene	107%	107%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR582-BS	R16095.D	1	04/10/13	BD	n/a	n/a	VR582
VR582-BSD	R16096.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	66.2	83	67.5	84	2	38-159/24
71-43-2	Benzene	20	18.6	93	18.6	93	0	77-122/25
108-86-1	Bromobenzene	20	19.5	98	19.5	98	0	76-126/17
74-97-5	Bromochloromethane	20	18.4	92	18.7	94	2	77-130/17
75-27-4	Bromodichloromethane	20	20.1	101	20.4	102	1	75-127/16
75-25-2	Bromoform	20	18.2	91	18.5	93	2	69-141/17
104-51-8	n-Butylbenzene	20	19.4	97	19.3	97	1	72-129/18
135-98-8	sec-Butylbenzene	20	19.7	99	19.5	98	1	74-128/18
98-06-6	tert-Butylbenzene	20	19.7	99	19.5	98	1	73-127/18
108-90-7	Chlorobenzene	20	19.3	97	19.1	96	1	77-122/16
75-00-3	Chloroethane	20	19.1	96	18.9	95	1	69-133/18
67-66-3	Chloroform	20	18.9	95	18.8	94	1	74-126/17
95-49-8	o-Chlorotoluene	20	19.2	96	19.2	96	0	72-127/20
106-43-4	p-Chlorotoluene	20	19.7	99	19.5	98	1	68-127/18
56-23-5	Carbon tetrachloride	20	19.7	99	19.6	98	1	71-133/19
75-34-3	1,1-Dichloroethane	20	18.2	91	18.1	91	1	71-125/17
75-35-4	1,1-Dichloroethylene	20	17.0	85	17.0	85	0	66-125/20
563-58-6	1,1-Dichloropropene	20	18.7	94	18.7	94	0	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	17.6	88	17.8	89	1	65-131/20
106-93-4	1,2-Dibromoethane	20	19.2	96	19.2	96	0	75-135/17
107-06-2	1,2-Dichloroethane	20	18.9	95	19.2	96	2	71-131/17
78-87-5	1,2-Dichloropropane	20	18.7	94	19.0	95	2	78-124/16
142-28-9	1,3-Dichloropropane	20	18.5	93	18.6	93	1	78-123/16
108-20-3	Di-Isopropyl ether	20	18.3	92	18.4	92	1	68-129/17
594-20-7	2,2-Dichloropropane	20	19.8	99	19.6	98	1	70-131/19
124-48-1	Dibromochloromethane	20	20.4	102	20.3	102	0	76-132/16
75-71-8	Dichlorodifluoromethane	20	19.1	96	18.6	93	3	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	17.8	89	17.9	90	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	19.8	99	20.2	101	2	72-130/16
541-73-1	m-Dichlorobenzene	20	19.4	97	19.4	97	0	75-124/16
95-50-1	o-Dichlorobenzene	20	19.2	96	19.4	97	1	76-124/16
106-46-7	p-Dichlorobenzene	20	19.3	97	19.2	96	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	18.0	90	17.8	89	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	20.0	100	20.1	101	0	71-126/16
100-41-4	Ethylbenzene	20	19.9	100	19.6	98	2	76-126/17
637-92-3	Ethyl Tert Butyl Ether	20	19.4	97	19.8	99	2	75-134/17

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR582-BS	R16095.D	1	04/10/13	BD	n/a	n/a	VR582
VR582-BSD	R16096.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	75.0	94	76.3	95	2	67-150/22
87-68-3	Hexachlorobutadiene	20	19.6	98	19.9	100	2	69-135/20
98-82-8	Isopropylbenzene	20	20.1	101	19.8	99	2	61-125/17
99-87-6	p-Isopropyltoluene	20	20.1	101	19.9	100	1	68-127/18
108-10-1	4-Methyl-2-pentanone	80	75.2	94	77.9	97	4	71-142/21
74-83-9	Methyl bromide	20	19.6	98	19.5	98	1	68-132/18
74-87-3	Methyl chloride	20	16.9	85	19.6	98	15	39-150/28
74-95-3	Methylene bromide	20	19.1	96	19.6	98	3	77-127/16
75-09-2	Methylene chloride	20	17.0	85	17.0	85	0	67-128/18
78-93-3	Methyl ethyl ketone	80	72.7	91	75.3	94	4	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	19.4	97	19.9	100	3	73-132/17
91-20-3	Naphthalene	20	18.4	92	19.2	96	4	70-136/20
103-65-1	n-Propylbenzene	20	20.1	101	19.8	99	2	71-127/17
100-42-5	Styrene	20	20.6	103	20.3	102	1	72-134/16
994-05-8	Tert-Amyl Methyl Ether	20	20.2	101	20.6	103	2	73-133/17
75-65-0	Tert-Butyl Alcohol	100	111	111	116	116	4	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	20	20.2	101	20.2	101	0	77-130/16
71-55-6	1,1,1-Trichloroethane	20	19.2	96	19.3	97	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	18.3	92	18.6	93	2	77-129/17
79-00-5	1,1,2-Trichloroethane	20	18.6	93	18.5	93	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	18.6	93	19.5	98	5	70-133/18
96-18-4	1,2,3-Trichloropropane	20	19.6	98	19.7	99	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	19.3	97	19.9	100	3	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	19.8	99	19.7	99	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	20.2	101	20.1	101	0	77-129/17
127-18-4	Tetrachloroethylene	20	19.4	97	19.2	96	1	69-127/20
108-88-3	Toluene	20	19.3	97	19.1	96	1	75-122/17
79-01-6	Trichloroethylene	20	19.5	98	19.6	98	1	78-123/17
75-69-4	Trichlorofluoromethane	20	17.9	90	17.7	89	1	65-136/23
75-01-4	Vinyl chloride	20	18.6	93	18.5	93	1	57-146/22
1330-20-7	Xylene (total)	60	59.0	98	58.3	97	1	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	98%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR582-BS	R16095.D	1	04/10/13	BD	n/a	n/a	VR582
VR582-BSD	R16096.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	99%	98%	70-130%
460-00-4	4-Bromofluorobenzene	99%	98%	70-130%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ560-LCS	Q14137.D	1	04/09/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
	TPH-GRO (C6-C10)	125	142	114	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV497-LCS	V12193.D	1	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
	TPH-GRO (C6-C10)	125	125	100	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ561-LCS	Q14158.D	1	04/10/13	PH	n/a	n/a	VQ561

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-15

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR582-LCS	R16097.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
	TPH-GRO (C6-C10)	125	133	106	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27035-9MS	Q14151.D	10	04/10/13	PH	n/a	n/a	VQ560
C27035-9MSD	Q14152.D	10	04/10/13	PH	n/a	n/a	VQ560
C27035-9	Q14140.D	10	04/10/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Compound	C27035-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		800	962	120	1030	129	7	38-159/24
71-43-2	Benzene	467		200	650	92	722	128* [a]	10	77-122/16
108-86-1	Bromobenzene	ND		200	196	98	205	103	4	76-126/17
74-97-5	Bromochloromethane	ND		200	212	106	240	120	12	77-130/17
75-27-4	Bromodichloromethane	ND		200	194	97	217	109	11	75-127/16
75-25-2	Bromoform	ND		200	139	70	155	78	11	69-141/17
104-51-8	n-Butylbenzene	9.3	J	200	198	94	214	102	8	72-129/18
135-98-8	sec-Butylbenzene	3.2	J	200	185	91	197	97	6	74-128/18
98-06-6	tert-Butylbenzene	ND		200	268	134* [b]	283	142* [b]	5	73-127/18
108-90-7	Chlorobenzene	ND		200	182	91	197	99	8	77-122/16
75-00-3	Chloroethane	ND		200	182	91	204	102	11	69-133/18
67-66-3	Chloroform	ND		200	208	104	236	118	13	74-126/17
95-49-8	o-Chlorotoluene	ND		200	194	97	205	103	6	72-127/20
106-43-4	p-Chlorotoluene	ND		200	187	94	199	100	6	68-127/18
56-23-5	Carbon tetrachloride	ND		200	198	99	220	110	11	71-133/19
75-34-3	1,1-Dichloroethane	ND		200	207	104	235	118	13	71-125/17
75-35-4	1,1-Dichloroethylene	ND		200	199	100	224	112	12	66-125/20
563-58-6	1,1-Dichloropropene	ND		200	206	103	229	115	11	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		200	200	100	209	105	4	65-131/20
106-93-4	1,2-Dibromoethane	ND		200	210	105	225	113	7	75-135/17
107-06-2	1,2-Dichloroethane	ND		200	199	100	218	109	9	71-131/17
78-87-5	1,2-Dichloropropane	ND		200	200	100	222	111	10	78-124/16
142-28-9	1,3-Dichloropropane	ND		200	205	103	220	110	7	78-123/16
108-20-3	Di-Isopropyl ether	ND		200	208	104	235	118	12	68-129/17
594-20-7	2,2-Dichloropropane	ND		200	166	83	187	94	12	70-131/19
124-48-1	Dibromochloromethane	ND		200	156	78	172	86	10	76-132/16
75-71-8	Dichlorodifluoromethane	ND		200	183	92	188	94	3	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		200	208	104	236	118	13	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		200	186	93	208	104	11	72-130/16
541-73-1	m-Dichlorobenzene	ND		200	177	89	187	94	5	75-124/16
95-50-1	o-Dichlorobenzene	ND		200	183	92	192	96	5	76-124/16
106-46-7	p-Dichlorobenzene	ND		200	191	96	200	100	5	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		200	210	105	240	120	13	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		200	182	91	197	99	8	71-126/16
100-41-4	Ethylbenzene	394		200	581	94	631	119	8	76-126/17
637-92-3	Ethyl Tert Butyl Ether	ND		200	228	114	259	130	13	75-134/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27035-9MS	Q14151.D	10	04/10/13	PH	n/a	n/a	VQ560
C27035-9MSD	Q14152.D	10	04/10/13	PH	n/a	n/a	VQ560
C27035-9	Q14140.D	10	04/10/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Compound	C27035-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		800	945	118	1020	128	8	67-150/22
87-68-3	Hexachlorobutadiene	ND		200	182	91	197	99	8	69-135/20
98-82-8	Isopropylbenzene	27.0		200	213	93	231	102	8	61-125/17
99-87-6	p-Isopropyltoluene	2.1	J	200	187	92	200	99	7	68-127/18
108-10-1	4-Methyl-2-pentanone	19.2	J	800	877	107	967	118	10	71-142/21
74-83-9	Methyl bromide	ND		200	172	86	191	96	10	68-132/18
74-87-3	Methyl chloride	ND		200	267	134	204	102	27	39-150/28
74-95-3	Methylene bromide	ND		200	204	102	222	111	8	77-127/16
75-09-2	Methylene chloride	ND		200	201	101	229	115	13	67-128/18
78-93-3	Methyl ethyl ketone	ND		800	947	118	1080	135	13	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		200	217	109	248	124	13	73-132/17
91-20-3	Naphthalene	166		200	389	112	411	123	6	70-136/20
103-65-1	n-Propylbenzene	63.9		200	244	90	259	98	6	71-127/17
100-42-5	Styrene	ND		200	215	108	233	117	8	72-134/16
994-05-8	Tert-Amyl Methyl Ether	ND		200	220	110	251	126	13	73-133/17
75-65-0	Tert-Butyl Alcohol	334		1000	1540	121	1820	149	17	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	ND		200	211	106	228	114	8	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		200	218	109	249	125	13	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	219	110	229	115	4	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		200	206	103	220	110	7	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		200	191	96	202	101	6	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		200	183	92	200	100	9	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		200	191	96	203	102	6	68-129/17
95-63-6	1,2,4-Trimethylbenzene	291		200	489	99	522	116	7	74-129/17
108-67-8	1,3,5-Trimethylbenzene	37.0		200	341	152* b	364	164* b	7	77-129/17
127-18-4	Tetrachloroethylene	ND		200	182	91	197	99	8	69-127/20
108-88-3	Toluene	649		200	822	87	888	120	8	75-122/17
79-01-6	Trichloroethylene	ND		200	196	98	218	109	11	78-123/17
75-69-4	Trichlorofluoromethane	ND		200	202	101	217	109	7	65-136/23
75-01-4	Vinyl chloride	ND		200	198	99	203	102	2	57-146/22
1330-20-7	Xylene (total)	547		600	1110	94	1200	109	8	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C27035-9	Limits
1868-53-7	Dibromofluoromethane	111%	117%	102%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27035-9MS	Q14151.D	10	04/10/13	PH	n/a	n/a	VQ560
C27035-9MSD	Q14152.D	10	04/10/13	PH	n/a	n/a	VQ560
C27035-9	Q14140.D	10	04/10/13	PH	n/a	n/a	VQ560

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16

CAS No.	Surrogate Recoveries	MS	MSD	C27035-9	Limits
2037-26-5	Toluene-D8	105%	103%	106%	70-130%
460-00-4	4-Bromofluorobenzene	105%	107%	103%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27055-3MS	V12210.D	20	04/10/13	TN	n/a	n/a	VV497
C27055-3MSD	V12211.D	20	04/10/13	TN	n/a	n/a	VV497
C27055-3	V12208.D	20	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Compound	C27055-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1600	1210	76	1180	74	3	38-159/24
71-43-2	Benzene	1030		400	1380	88	1450	105	5	77-122/16
108-86-1	Bromobenzene	ND		400	396	99	395	99	0	76-126/17
74-97-5	Bromochloromethane	ND		400	381	95	385	96	1	77-130/17
75-27-4	Bromodichloromethane	ND		400	396	99	384	96	3	75-127/16
75-25-2	Bromoform	ND		400	373	93	368	92	1	69-141/17
104-51-8	n-Butylbenzene	51.8		400	438	97	456	101	4	72-129/18
135-98-8	sec-Butylbenzene	11.5	J	400	397	96	406	99	2	74-128/18
98-06-6	tert-Butylbenzene	ND		400	556	139* [a]	577	144* [a]	4	73-127/18
108-90-7	Chlorobenzene	ND		400	377	94	385	96	2	77-122/16
75-00-3	Chloroethane	ND		400	379	95	382	96	1	69-133/18
67-66-3	Chloroform	ND		400	419	105	411	103	2	74-126/17
95-49-8	o-Chlorotoluene	ND		400	363	91	366	92	1	72-127/20
106-43-4	p-Chlorotoluene	ND		400	376	94	380	95	1	68-127/18
56-23-5	Carbon tetrachloride	ND		400	437	109	435	109	0	71-133/19
75-34-3	1,1-Dichloroethane	ND		400	421	105	414	104	2	71-125/17
75-35-4	1,1-Dichloroethylene	ND		400	400	100	402	101	0	66-125/20
563-58-6	1,1-Dichloropropene	ND		400	437	109	437	109	0	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		400	356	89	357	89	0	65-131/20
106-93-4	1,2-Dibromoethane	ND		400	361	90	357	89	1	75-135/17
107-06-2	1,2-Dichloroethane	ND		400	395	99	377	94	5	71-131/17
78-87-5	1,2-Dichloropropane	ND		400	408	102	406	102	0	78-124/16
142-28-9	1,3-Dichloropropane	ND		400	370	93	367	92	1	78-123/16
108-20-3	Di-Isopropyl ether	ND		400	399	100	390	98	2	68-129/17
594-20-7	2,2-Dichloropropane	ND		400	310	78	301	75	3	70-131/19
124-48-1	Dibromochloromethane	ND		400	362	91	363	91	0	76-132/16
75-71-8	Dichlorodifluoromethane	ND		400	457	114	419	105	9	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		400	409	102	408	102	0	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		400	380	95	378	95	1	72-130/16
541-73-1	m-Dichlorobenzene	ND		400	373	93	377	94	1	75-124/16
95-50-1	o-Dichlorobenzene	ND		400	364	91	363	91	0	76-124/16
106-46-7	p-Dichlorobenzene	ND		400	398	100	399	100	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		400	423	106	423	106	0	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		400	330	83	330	83	0	71-126/16
100-41-4	Ethylbenzene	152		400	558	102	576	106	3	76-126/17
637-92-3	Ethyl Tert Butyl Ether	ND		400	435	109	431	108	1	75-134/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27055-3MS	V12210.D	20	04/10/13	TN	n/a	n/a	VV497
C27055-3MSD	V12211.D	20	04/10/13	TN	n/a	n/a	VV497
C27055-3	V12208.D	20	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Compound	C27055-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		1600	1340	84	1310	82	2	67-150/22
87-68-3	Hexachlorobutadiene	ND		400	400	100	415	104	4	69-135/20
98-82-8	Isopropylbenzene	39.8		400	431	98	439	100	2	61-125/17
99-87-6	p-Isopropyltoluene	6.1	J	400	383	94	391	96	2	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		1600	1440	90	1420	89	1	71-142/21
74-83-9	Methyl bromide	ND		400	378	95	381	95	1	68-132/18
74-87-3	Methyl chloride	ND		400	402	101	376	94	7	39-150/28
74-95-3	Methylene bromide	ND		400	388	97	374	94	4	77-127/16
75-09-2	Methylene chloride	ND		400	390	98	389	97	0	67-128/18
78-93-3	Methyl ethyl ketone	ND		1600	1310	82	1280	80	2	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		400	393	98	387	97	2	73-132/17
91-20-3	Naphthalene	90.4	J	400	480	97	478	97	0	70-136/20
103-65-1	n-Propylbenzene	97.7		400	469	93	481	96	3	71-127/17
100-42-5	Styrene	ND		400	413	103	413	103	0	72-134/16
994-05-8	Tert-Amyl Methyl Ether	ND		400	401	100	394	99	2	73-133/17
75-65-0	Tert-Butyl Alcohol	ND		2000	1820	91	1780	89	2	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	ND		400	410	103	417	104	2	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		400	436	109	438	110	0	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		400	367	92	354	89	4	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		400	379	95	377	94	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		400	393	98	397	99	1	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		400	333	83	325	81	2	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		400	383	96	393	98	3	68-129/17
95-63-6	1,2,4-Trimethylbenzene	760		400	1120	90	1190	108	6	74-129/17
108-67-8	1,3,5-Trimethylbenzene	186		400	627	110	656	118	5	77-129/17
127-18-4	Tetrachloroethylene	ND		400	403	101	410	103	2	69-127/20
108-88-3	Toluene	547		400	932	96	984	109	5	75-122/17
79-01-6	Trichloroethylene	ND		400	419	105	414	104	1	78-123/17
75-69-4	Trichlorofluoromethane	ND		400	428	107	431	108	1	65-136/23
75-01-4	Vinyl chloride	ND		400	476	119	470	118	1	57-146/22
1330-20-7	Xylene (total)	374		1200	1570	100	1600	102	2	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C27055-3	Limits
1868-53-7	Dibromofluoromethane	100%	99%	101%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27055-3MS	V12210.D	20	04/10/13	TN	n/a	n/a	VV497
C27055-3MSD	V12211.D	20	04/10/13	TN	n/a	n/a	VV497
C27055-3	V12208.D	20	04/10/13	TN	n/a	n/a	VV497

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7

CAS No.	Surrogate Recoveries	MS	MSD	C27055-3	Limits
2037-26-5	Toluene-D8	103%	103%	103%	70-130%
460-00-4	4-Bromofluorobenzene	102%	100%	102%	70-130%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27055-15MS	Q14173.D	10	04/10/13	PH	n/a	n/a	VQ561
C27055-15MSD	Q14174.D	10	04/10/13	PH	n/a	n/a	VQ561
C27055-15	Q14172.D	10	04/10/13	PH	n/a	n/a	VQ561

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-15

CAS No.	Compound	C27055-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	707		200	885	89	885	89	0	77-122/16

CAS No.	Surrogate Recoveries	MS	MSD	C27055-15	Limits
1868-53-7	Dibromofluoromethane	102%	103%	103%	70-130%
2037-26-5	Toluene-D8	107%	106%	106%	70-130%
460-00-4	4-Bromofluorobenzene	106%	107%	101%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27100-2MS	R16116.D	1	04/10/13	BD	n/a	n/a	VR582
C27100-2MSD	R16117.D	1	04/10/13	BD	n/a	n/a	VR582
C27100-2	R16100.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Compound	C27100-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		80	66.2	83	66.8	84	1	38-159/24
71-43-2	Benzene	ND		20	18.5	93	18.5	93	0	77-122/16
108-86-1	Bromobenzene	ND		20	19.8	99	20.1	101	2	76-126/17
74-97-5	Bromochloromethane	ND		20	18.2	91	18.2	91	0	77-130/17
75-27-4	Bromodichloromethane	ND		20	19.5	98	19.6	98	1	75-127/16
75-25-2	Bromoform	ND		20	16.8	84	17.1	86	2	69-141/17
104-51-8	n-Butylbenzene	ND		20	19.0	95	19.2	96	1	72-129/18
135-98-8	sec-Butylbenzene	ND		20	19.9	100	20.1	101	1	74-128/18
98-06-6	tert-Butylbenzene	ND		20	19.9	100	20.0	100	1	73-127/18
108-90-7	Chlorobenzene	0.77	J	20	19.9	96	20.1	97	1	77-122/16
75-00-3	Chloroethane	ND		20	18.4	92	18.1	91	2	69-133/18
67-66-3	Chloroform	ND		20	18.5	93	18.6	93	1	74-126/17
95-49-8	o-Chlorotoluene	ND		20	19.1	96	19.4	97	2	72-127/20
106-43-4	p-Chlorotoluene	ND		20	19.7	99	19.7	99	0	68-127/18
56-23-5	Carbon tetrachloride	ND		20	20.4	102	20.5	103	0	71-133/19
75-34-3	1,1-Dichloroethane	1.2		20	18.8	88	18.6	87	1	71-125/17
75-35-4	1,1-Dichloroethylene	ND		20	17.7	89	17.5	88	1	66-125/20
563-58-6	1,1-Dichloropropene	ND		20	19.3	97	19.3	97	0	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		20	16.8	84	17.4	87	4	65-131/20
106-93-4	1,2-Dibromoethane	ND		20	18.9	95	19.2	96	2	75-135/17
107-06-2	1,2-Dichloroethane	ND		20	18.4	92	18.6	93	1	71-131/17
78-87-5	1,2-Dichloropropane	ND		20	18.6	93	18.7	94	1	78-124/16
142-28-9	1,3-Dichloropropane	ND		20	18.1	91	18.4	92	2	78-123/16
108-20-3	Di-Isopropyl ether	ND		20	17.8	89	17.8	89	0	68-129/17
594-20-7	2,2-Dichloropropane	ND		20	18.5	93	18.3	92	1	70-131/19
124-48-1	Dibromochloromethane	ND		20	19.2	96	19.5	98	2	76-132/16
75-71-8	Dichlorodifluoromethane	ND		20	20.3	102	20.3	102	0	32-168/28
156-59-2	cis-1,2-Dichloroethylene	1.7		20	19.1	87	19.0	87	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		20	18.5	93	18.7	94	1	72-130/16
541-73-1	m-Dichlorobenzene	ND		20	19.5	98	19.6	98	1	75-124/16
95-50-1	o-Dichlorobenzene	ND		20	19.3	97	19.5	98	1	76-124/16
106-46-7	p-Dichlorobenzene	1.7		20	20.6	95	20.8	96	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		20	17.7	89	17.6	88	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		20	18.5	93	18.8	94	2	71-126/16
100-41-4	Ethylbenzene	ND		20	19.8	99	20.0	100	1	76-126/17
637-92-3	Ethyl Tert Butyl Ether	ND		20	19.1	96	19.2	96	1	75-134/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27100-2MS	R16116.D	1	04/10/13	BD	n/a	n/a	VR582
C27100-2MSD	R16117.D	1	04/10/13	BD	n/a	n/a	VR582
C27100-2	R16100.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Compound	C27100-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		80	74.0	93	74.9	94	1	67-150/22
87-68-3	Hexachlorobutadiene	ND		20	19.6	98	20.3	102	4	69-135/20
98-82-8	Isopropylbenzene	ND		20	20.2	101	20.4	102	1	61-125/17
99-87-6	p-Isopropyltoluene	ND		20	20.0	100	20.2	101	1	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		80	73.7	92	75.1	94	2	71-142/21
74-83-9	Methyl bromide	ND		20	18.5	93	18.4	92	1	68-132/18
74-87-3	Methyl chloride	ND		20	16.5	83	16.4	82	1	39-150/28
74-95-3	Methylene bromide	ND		20	18.8	94	19.1	96	2	77-127/16
75-09-2	Methylene chloride	ND		20	16.4	82	16.3	82	1	67-128/18
78-93-3	Methyl ethyl ketone	ND		80	70.8	89	71.1	89	0	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		20	19.2	96	19.5	98	2	73-132/17
91-20-3	Naphthalene	ND		20	18.6	93	19.5	98	5	70-136/20
103-65-1	n-Propylbenzene	ND		20	20.1	101	20.2	101	0	71-127/17
100-42-5	Styrene	ND		20	17.7	89	17.9	90	1	72-134/16
994-05-8	Tert-Amyl Methyl Ether	ND		20	20.0	100	20.2	101	1	73-133/17
75-65-0	Tert-Butyl Alcohol	4.0	J	100	118	114	118	114	0	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	ND		20	20.2	101	20.5	103	1	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		20	19.7	99	19.7	99	0	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	18.2	91	18.4	92	1	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		20	18.1	91	18.4	92	2	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		20	18.3	92	19.5	98	6	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		20	18.1	91	18.4	92	2	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		20	19.0	95	19.6	98	3	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		20	18.7	94	18.8	94	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		20	19.9	100	20.2	101	1	77-129/17
127-18-4	Tetrachloroethylene	1.2		20	21.2	100	21.3	101	0	69-127/20
108-88-3	Toluene	ND		20	19.2	96	19.4	97	1	75-122/17
79-01-6	Trichloroethylene	2.3		20	21.6	97	21.8	98	1	78-123/17
75-69-4	Trichlorofluoromethane	ND		20	19.2	96	19.3	97	1	65-136/23
75-01-4	Vinyl chloride	ND		20	19.1	96	18.7	94	2	57-146/22
1330-20-7	Xylene (total)	ND		60	58.6	98	58.9	98	1	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C27100-2	Limits
1868-53-7	Dibromofluoromethane	95%	96%	93%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27100-2MS	R16116.D	1	04/10/13	BD	n/a	n/a	VR582
C27100-2MSD	R16117.D	1	04/10/13	BD	n/a	n/a	VR582
C27100-2	R16100.D	1	04/10/13	BD	n/a	n/a	VR582

The QC reported here applies to the following samples: **Method:** SW846 8260B

C27055-8, C27055-9, C27055-10, C27055-17, C27055-18, C27055-19

CAS No.	Surrogate Recoveries	MS	MSD	C27100-2	Limits
2037-26-5	Toluene-D8	98%	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	98%	99%	97%	70-130%

* = Outside of Control Limits.

Northern California ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7779-MB	GG42177.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7, C27055-8, C27055-9, C27055-10, C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16, C27055-17, C27055-18

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.10	0.050	mg/l	
	TPH (Motor Oil)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	69%	32-124%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27055
Account: SGRPCAPH The Source Group
Project: T0600101592-9201 San Leandro Street, Oakland CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7779-BS	GG42178.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125
OP7779-BSD	GG42179.D	1	04/08/13	MT	04/08/13	OP7779	GGG1125

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C27055-1, C27055-2, C27055-3, C27055-4, C27055-5, C27055-6, C27055-7, C27055-8, C27055-9, C27055-10, C27055-11, C27055-12, C27055-13, C27055-14, C27055-15, C27055-16, C27055-17, C27055-18

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	1	0.711	71	0.666	67	7	38-115/22
	TPH (Motor Oil)	1	0.749	75	0.707	71	6	45-114/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	79%	76%	32-124%

* = Outside of Control Limits.

APPENDIX I

PARTICLE SIZE DISTRIBUTION ANALYSIS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-48500-2
Client Project/Site: Paco Pumps

For:
The Source Group
3478 Buskirk Avenue, Suite 100
Pleasant Hill, California 94523

Attn: Mr. Paisha Jorgensen

Authorized for release by:
5/9/2013 3:01:32 PM

Afsaneh Salimpour, Project Manager I
afsaneh.salimpour@testamericainc.com

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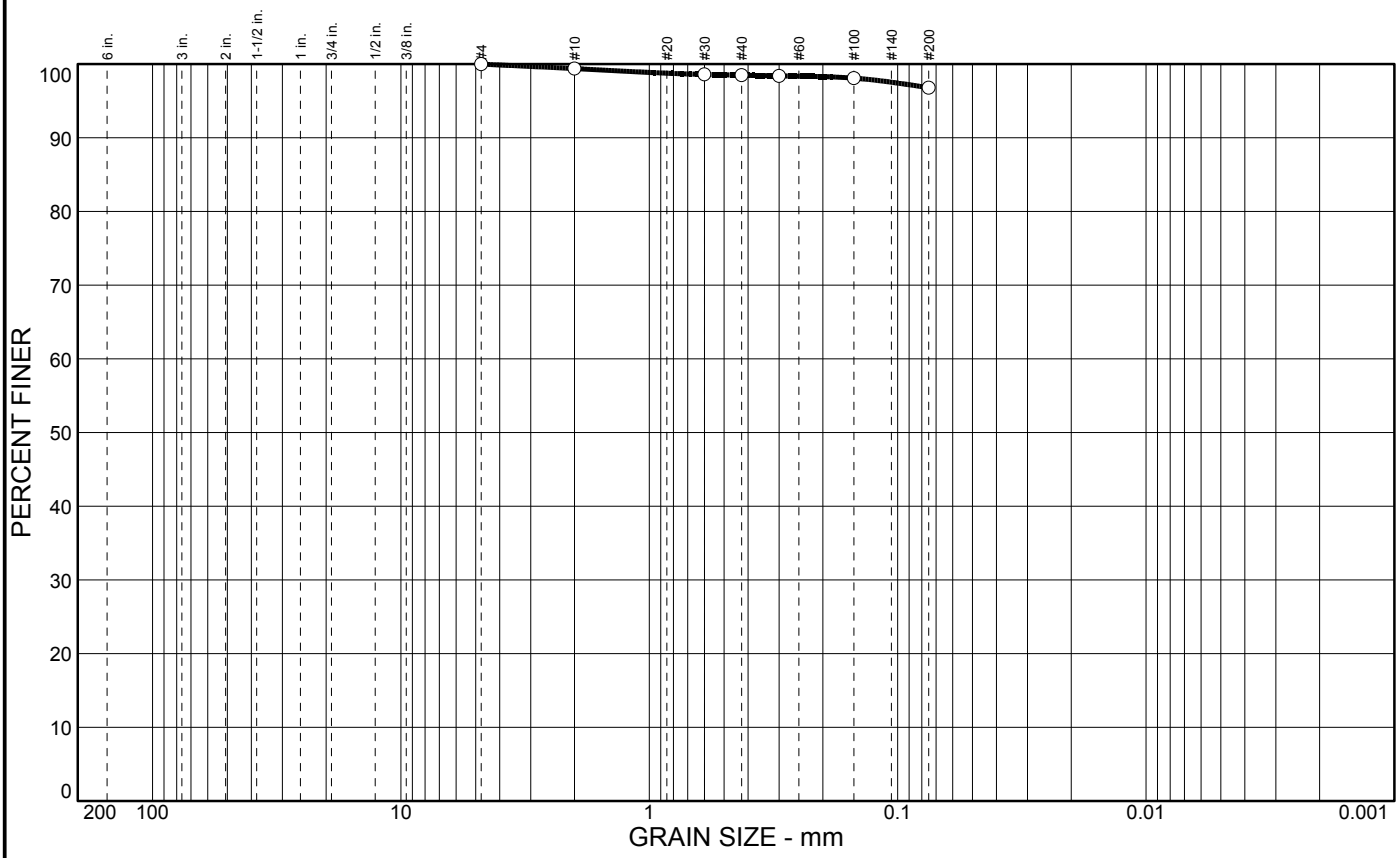
Particle Size Distribution Report



	% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY	USCS	AASHTO	PL	LL
○			3.2	96.8					

SIEVE inches size	PERCENT FINER ○		
	GRAIN SIZE		
D_{60}			
D_{30}			
D_{10}			
	COEFFICIENTS		
C_c			
C_u			

SIEVE number size	PERCENT FINER ○		
#4	100.0		
#10	99.4		
#30	98.6		
#40	98.5		
#50	98.4		
#100	98.1		
#200	96.8		

SOIL DESCRIPTION

○ Dark Gray CLAY

REMARKS:

○

○ Source: SV-7-5.5 (720-48500-20)

COOPER TESTING LABORATORY

Client: Test America

Project: Paco Pumps - 72009158

Project No.: 634-075

Figure

720-48500-2

Salimpour, Afsaneh

From: Paisha Jorgensen [pjorgensen@thesourcegroup.net]
Sent: Tuesday, April 23, 2013 12:26 PM
To: Salimpour, Afsaneh
Subject: Re: Paco Pumps, Job ID 720-48500-1

OK, let's just do the sieve analysis.

Thanks.

From: "Salimpour, Afsaneh" <Afsaneh.Salimpour@testamericainc.com>
Date: Tuesday, April 23, 2013 12:22 PM
To: Paisha Jorgensen <pjorgensen@thesourcegroup.net>
Subject: RE: Paco Pumps, Job ID 720-48500-1

Hi Paosha,
I checked with our sub lab and they said they can not do Total porosity and bulk density on disturbed sample.
Thanks.

From: Paisha Jorgensen [mailto:pjorgensen@thesourcegroup.net]
Sent: Friday, April 19, 2013 6:36 AM
To: Salimpour, Afsaneh
Subject: Paco Pumps, Job ID 720-48500-1

Afsaneh,
We would like sample ID SV-7-5.5 (corresponding to Lab Sample ID 720-48500-20) to be analyzed for the following physical properties:

Total porosity
Bulk density
Sieve analysis

We understand that the sample has been disturbed, which may affect sample results.

Thank you,

Paisha Jorgensen, P.G.
Project Geologist
pjorgensen@thesourcegroup.net
The Source Group, Inc.
Environmental Engineering, Hydrogeologic & Management Services
3478 Buskirk Avenue, Suite 100
Pleasant Hill, CA 94523
510.847.9217 mobile
925.944.2856 ext. 380
www.thesourcegroup.net?

Login Sample Receipt Checklist

Client: The Source Group

Job Number: 720-48500-2

Login Number: 48500

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX J

JOHNSON AND ETTINGER MODEL

SG-SCREEN
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DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 2/4/09)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
71432	2.30E+04			Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	167.6	24			1.00E-08

MORE ↓

ENTER Vandose zone SCS soil type b{{[«f ♂♂k+£+	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
C	1.53	0.428	0.387	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
152.6	0.041	#N/A	#N/A	#N/A	1.00E-08	4,000	2.30E+04	3.39E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	7,977	5.29E-03	2.17E-01	1.80E-04	2.20E-05	152.6

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.30E+04	1.25	8.33E+01	2.20E-05	5.00E+03	#NUM!	4.24E-06	9.76E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.9E-05	3.0E-02

END

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DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 2/4/09)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
100414	5.20E+03			Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	167.6	24			1.00E-08

MORE ↓

ENTER Vandose zone SCS soil type b{{[«f ♂♂k+£+	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
C	1.53	0.428	0.387	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
152.6	0.041	#N/A	#N/A	#N/A	1.00E-08	4,000	5.20E+03	3.39E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	9,994	7.43E-03	3.05E-01	1.80E-04	1.58E-05	152.6

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	5.20E+03	1.25	8.33E+01	1.58E-05	5.00E+03	#NUM!	3.04E-06	1.58E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.5E-06	1.0E+00

END

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DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 2/4/09)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
71432	2.40E+03			Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	167.6	24			1.00E-08

MORE ↓

ENTER Vandose zone SCS soil type b{{[«f ♂♂k+£+	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
C	1.53	0.428	0.387	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
152.6	0.041	#N/A	#N/A	#N/A	1.00E-08	4,000	2.40E+03	3.39E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	7,977	5.29E-03	2.17E-01	1.80E-04	2.20E-05	152.6

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.40E+03	1.25	8.33E+01	2.20E-05	5.00E+03	#NUM!	4.24E-06	1.02E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.9E-05	3.0E-02

END

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DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 2/4/09)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
100414	1.40E+02			Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	167.6	24			1.00E-08

MORE ↓

ENTER Vandose zone SCS soil type b{{[«f ♂♂k+£+	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
C	1.53	0.428	0.387	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
152.6	0.041	#N/A	#N/A	#N/A	1.00E-08	4,000	1.40E+02	3.39E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	9,994	7.43E-03	3.05E-01	1.80E-04	1.58E-05	152.6

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.40E+02	1.25	8.33E+01	1.58E-05	5.00E+03	#NUM!	3.04E-06	4.26E-04

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.5E-06	1.0E+00

END

SG-SCREEN
?A Version 2.0; 04/

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DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 2/4/09)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
71432	5.60E+05			Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	167.6	24			1.00E-08

MORE ↓

ENTER Vandose zone SCS soil type b{{[«f ♂♂k+£+	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
C	1.53	0.428	0.387	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
152.6	0.041	#N/A	#N/A	#N/A	1.00E-08	4,000	5.60E+05	3.39E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	7,977	5.29E-03	2.17E-01	1.80E-04	2.20E-05	152.6

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	5.60E+05	1.25	8.33E+01	2.20E-05	5.00E+03	#NUM!	4.24E-06	2.38E+00

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.9E-05	3.0E-02

END

SG-SCREEN
?A Version 2.0; 04/

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DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 2/4/09)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
100414	4.50E+04			Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	167.6	24			1.00E-08

MORE ↓

ENTER Vandose zone SCS soil type b{{[«f ♂♂k+£+	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
C	1.53	0.428	0.387	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
152.6	0.041	#N/A	#N/A	#N/A	1.00E-08	4,000	4.50E+04	3.39E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	9,994	7.43E-03	3.05E-01	1.80E-04	1.58E-05	152.6

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	4.50E+04	1.25	8.33E+01	1.58E-05	5.00E+03	#NUM!	3.04E-06	1.37E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.5E-06	1.0E+00

END